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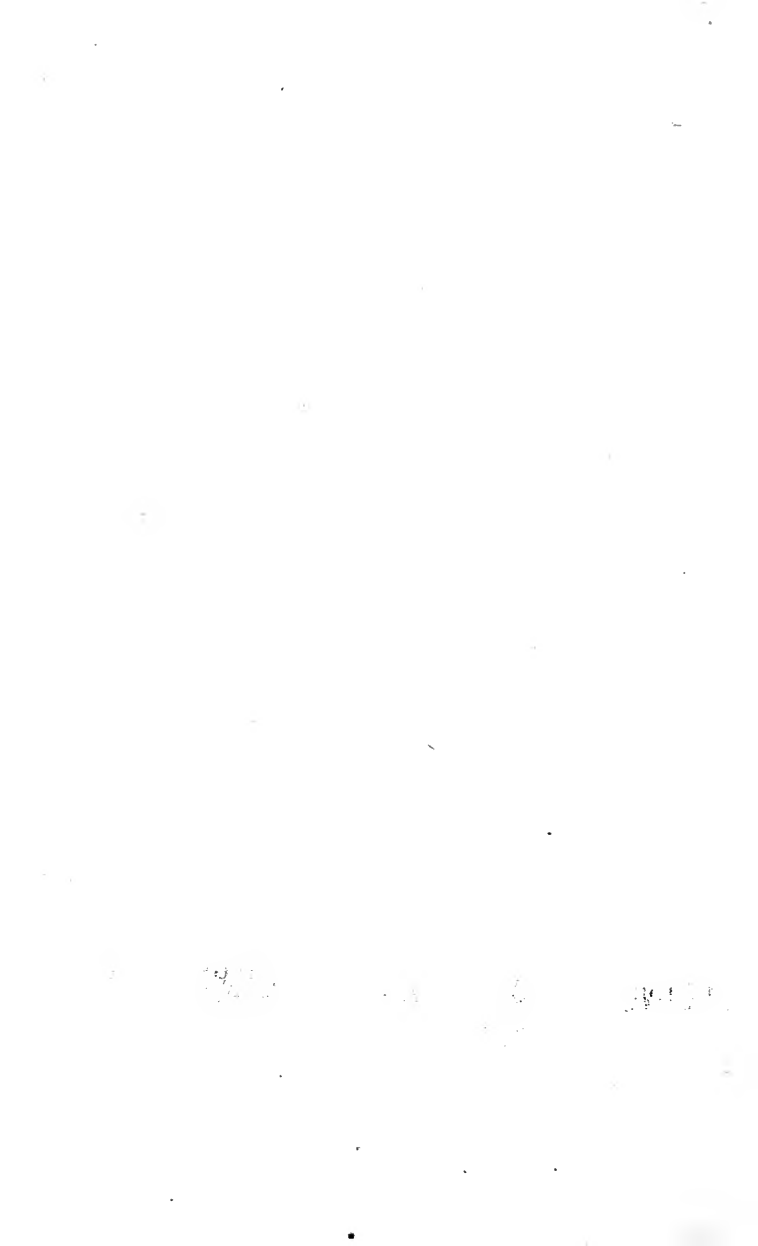
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FIFTEENTH ANNUAL REPORT

OF THE

State Bureau of Labor Statistics.

32080  
COAL IN ILLINOIS  
1896.

CONTAINING THE

THIRTEENTH ANNUAL REPORTS

OF THE

STATE INSPECTORS OF MINES.

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## COAL IN ILLINOIS.

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Statistics relating to the production of coal in the State of Illinois have been compiled under the direction of this Bureau for the past fifteen years.

In this time the industry has made great advancement both as regards the quantity and cost of production. While the total number of mines has increased only 28 per cent., the total amount of coal produced has been augmented nearly 80 and the number of men employed about 82 per cent., indicating that, while the increase in product and number of employes has been uniform and parallel, the capacity of individual mines and the consequent economy of production has been increased in a very much greater ratio.

In this, the fifteenth annual report, the form of most of the tables will be found to differ materially from those in preceding reports. These changes have been made partly for the sake of condensation and the avoidance of useless repetitions, and partly from necessity, in consequence of the redistricting, by the 39th General Assembly, of the State into seven instead of five inspection districts.

That part of the act affecting the inspection districts is as follows;

§ 11a. The State shall be divided into seven inspection districts, as follows:  
*The first district shall be composed of the counties of Boone, McHenry, Lake, DeKalb, Kane, DuPage, Cook, LaSalle, Kendall, Grundy, Will, Livingston and Kankakee.*

*The second district the counties of JoDaviess, Stephenson, Winnebago, Carroll, Ogle, Whiteside, Lee, Rock Island, Henry, Bureau, Mercer, Stark, Putnam, Marshall, Peoria and Woodford.*

*The third district the counties of Henderson, Warren, Knox, Hancock, McDonough, Schuyler, Fulton, Adams and Brown.*

*The fourth district the counties of Tazewell, McLean, Ford, Iroquois, Vermilion, Champaign, Piatt, DeWitt, Macon, Logan, Menard, Mason and Cass.*

*The fifth district the counties of Pike, Scott, Morgan, Sangamon, Christian, Shelby, Moultrie, Douglas, Coles, Cumberland, Clark, Edgar, Montgomery, Macoupin, Greene, Jersey and Calhoun.*

*The sixth district the counties of Monroe, St. Clair, Madison, Bond, Clinton, Fayette, Marion, Effingham, Clay, Jasper, Richland Crawford and Lawrence.*

*The seventh district the counties of Washington, Jefferson, Wayne, Edwards, Wabash, White, Hamilton, Franklin, Perry, Randolph, Jackson, Williamson, Saline, Gallatin, Hardin, Pope, Johnson, Massac, Union, Alexander and Pulaski.*

[As amended by an act approved June 15, 1895, in force July 1, 1895.]

The following table contains a brief summary of the items of chief interest in this industry for the year ending July 1, 1896, compared with 1895:

*Comparative Statement.*

Subject of Inquiry.	For year ending July 1, 1896	For year ending July 1, 1895	Increase 1896 over 1895.	D'crease 1896 from 1895
Number of counties in which coal is mined.....	51	54	.....	3
Number of mines and openings of all kinds .....	901	874	27	.....
Number of shipping mines.....	330	319	11	.....
Number of mines in local trade.....	571	555	16	.....
Number of tons of coal mined, all grades.....	19,786,626	17,735,864	2,050,762	.....
Number of tons of lump coal (2,000 lbs.).....	14,210,024	14,045,962	164,062	.....
Number of tons of other grades of coal.....	5,576,602	3,689,902	1,886,700	.....
Number of acres worked out (estimated) .....	3,292.49	2,950.69	341.80	.....
Number of employes, all kinds .....	37,032	38,630	.....	1,598
Number of boys over 14 years of age under ground.	911	811	100	.....
Number of employes under ground .....	33,175	34,648	.....	1,473
Number of employes above ground.....	3,857	3,982	.....	125
Average No. of days of active operation—shipping mines.....	186	182.2	3.8	.....
Aggregate home value of total product .....	\$15,809,736	\$14,239,157	\$1,570,579	.....
Aggregate home value of lump coal.....	\$12,565,334	\$13,090,836	.....	\$525,502
Aggregate home value of other grades .....	\$3,244,402	\$1,148,321	\$2,096,081	.....
Average value of lump coal at the mine—per ton..	\$0.899	\$0.932	.....	\$0.033
Average value of other grades of coal at the mine..	\$0.585	\$0.349	\$0.236	.....
Average price paid for hand mining—the year .....	\$0.530	\$0.573	.....	\$0.043
Number of tons of coal mined by hand .....	9,371,582	7,868,006	1,503,576	.....
Number of mining machines in use .....	307	322	.....	15
Number of tons of coal, all grades, mined by ma- chines.....	3,871,410	3,531,436	339,974	.....
Number of tons of lump coal mined by machines ..	2,503,739	2,469,804	33,935	.....
Number of tons other grades mined by machines ..	964,591	824,235	140,356	.....
Number of kegs of powder used .....	369,505	324,888	44,617	.....
Number of men killed .....	77	75	2	.....
Number of wives left widows.....	44	42	2	.....
Number of children left fatherless .....	155	111	44	.....
Number of men injured so as to lose time .....	672	605	67	.....
Number of tons of coal mined to each life lost.....	256,969	236,478	20,491	.....
Number of tons of coal mined to each man injured.	29,444	29,312	132	.....
Number of employes to each life lost.....	481	515	.....	34
Number of employes to each man injured .....	55	64	.....	9
Number of new mines opened and old ones reopened	142	115	27	.....
Number of mines closed or abandoned during the year.....	115	78	37	.....

An examination of this table shows a considerable increase in the output over that of 1895, the tonnage reaching a total equalled but once, in 1893, in the history of coal mining in this State.

The average price of lump or screened coal is less than last year, but the average price of other grades shows a considerable advance. This, taken by itself, would appear remarkable, but when the relatively large increase in the tonnage of other grades is taken into consideration, the solution seems to be that the general effort on the part of the operators to introduce larger screens is having a very perceptible effect both on the amount and value of the coal which passes through them.

The number of accidents, both fatal and non-fatal, has been greater this year than last, and this despite the fact that strenuous efforts have been made to enforce the laws having for their purpose the pro-

tection and preservation of the life and health of the miner. This steady increase in the number of casualties seems to be due partly to defects in the laws themselves, but mainly to a condition which is not controlled by any statute.

The prevailing hard times has forced large numbers of men into the ranks of the army of the unemployed. Among these the struggle for a mere existence is constant and intense. The opportunity to earn the bare necessities of life, even at the hardest and most hazardous employment, is a prize to be fought for. The lower the intelligence of the individual, the lower the standard of living, and to that extent he has an advantage over his fellows.

The same cause which has operated to swell the ranks of those seeking employment, has also served to make fiercer the competition between those to whom they must look for employment. The coal operators have extensive and costly plants, representing, in the aggregate, many millions of dollars. Every day of idleness means enormous losses. But to operate them without a vastly greater loss, there must be a sale for the product. This means lower prices and lower prices means reduced cost of operation, and when this object is sought to be attained, wages are always the first point of attack.

These two conditions, operating together, have had their inevitable result. The general intelligence of the coal miners, as a class, has become lower with each succeeding year. Each year finds in the coal mines men of lower skill in their craft, less appreciation of its dangers and less knowledge of the methods of avoiding them. This seems to be the true solution of the constant and deplorable increase in the number of casualties, and, under the present economic conditions, there seems to be but little hope for a betterment.

#### SHIPPING AND LOCAL MINES.

The mines of this State may, roughly, be divided into two classes, shipping and local. The former are for the most part extensive and costly plants, involving a large outlay of capital, employing a large number of men and not depending for a market upon the local trade.

The local mines, on the other hand, are generally small affairs, working only a small part of the year, employing few men and disposing of their entire product for consumption in their immediate neighborhood. Many of these so-called mines are mere outcroppings of coal on some hillside where the owner of the land, a farmer at

other times, finds employment during the winter months for himself and one or two hired hands in getting out a few tons of coal for his own use and that of a few neighbors.

Tables I and II show the number and comparative importance of shipping and local mines. It will be seen that the 571 local mines, over 63 per cent. of the total number, yield only 739,247 tons, or less than 8 per cent. of the total product.

On account, therefore, of the relative unimportance of the local mines, all computations in this report having for their purpose the determination of questions pertaining to coal mining as a distinct industry are based upon data gathered from the 330 shipping mines since it is this class of mines, producing more than 92 per cent. of the total tonnage of the State and employing over 76 per cent. of the total number of men, which must determine these conditions.

TABLE I—*Shipping and local, new and abandoned mines, ten years.*

DISTRICTS.	Total number of mines.	SHIPPING MINES.		MINES IN LOCAL TRADE.		New mines opened during the year.	Mines abandoned during the year.	Increase (+), decrease (-).	Total number of mines in same territory, 1895.
		Number.	Per cent. of whole number.	Number.	Per cent. of whole number.				
First.....	86	38	44.18	48	55.82	14	10	+4	82
Second.....	186	49	26.34	137	73.66	13	33	-20	206
Third.....	210	28	13.33	182	86.67	31	31	.....	210
Fourth.....	98	40	40.80	58	59.20	10	7	+3	95
Fifth.....	93	50	53.76	43	46.24	12	19	-7	100
Sixth.....	102	74	72.05	28	27.95	10	8	+2	100
Seventh.....	126	51	40.47	75	59.53	52	7	+45	81
The State, 1896.....	901	330	36.62	571	63.38	142	115	+27	874
“ 1895.....	874	319	36.50	555	63.50	115	77	+38	.....
“ 1894.....	836	319	38.16	517	61.84	156	108	+48	.....
“ 1893.....	788	310	39.34	478	60.66	70	121	-51	.....
“ 1892.....	839	310	36.95	529	63.05	61	140	-79	.....
“ 1891.....	918	327	35.62	591	64.38	92	110	-18	.....
“ 1890.....	936	327	34.93	609	65.07	176	94	+82	.....
“ 1889.....	854	332	38.88	522	61.12	123	102	+21	.....
“ 1888.....	833	313	37.58	520	62.42	99	74	+25	.....
“ 1887.....	808	292	36.14	516	63.86	60	39	+21	.....

TABLE II—*Comparison of output of shipping and local mines, four years.*

DISTRICTS.	SHIPPING MINES.					LOCAL MINES.				
	Total output, all grades—tons.	Total output, lump coal—tons.	Per cent. total tons.	Per cent. lump coal, tons.	Average number of days of active operation of mines.	Total output, all grades—tons.	Total output, lump coal—tons.	Per cent. total tons.	Per cent. lump coal, tons.	Average number of days of active operation of mines.
First.....	2,919,676	2,452,870	96.2	96.2	166	115,101	106,836	3.8	3.8	150
Second.....	2,491,985	1,953,846	92.6	91.2	198	198,235	192,721	7.4	8.8	155
Third.....	496,726	395,692	78.9	75.4	157	132,109	128,969	21.1	24.6	160
Fourth.....	2,666,330	1,433,381	95.1	92.1	210	136,630	122,402	4.9	7.9	147
Fifth.....	4,656,075	3,166,866	99.2	98.1	197	33,905	33,065	.8	1.9	187
Sixth.....	3,725,888	2,838,732	98.7	98.6	196	50,276	49,643	1.3	1.4	199
Seventh.....	2,090,699	1,281,858	96.6	96.0	164	72,991	53,113	3.4	4.0	118
The State, 1896..	19,047,379	13,523,245	92.3	95.2	186	739,247	686,779	7.7	4.1	159
“ 1895..	16,578,890	13,014,219	93.5	92.7	171	1,156,974	1,031,713	6.50	7.30	155
“ 1894..	16,106,613	12,892,581	94.1	93.0	174	1,006,963	972,703	5.90	7.00	157
“ 1893..	19,257,682	15,430,562	96.5	95.8	225	691,882	682,337	3.50	4.20	161

## TONNAGE OF THE STATE.

## MINES CLASSIFIED ACCORDING TO THEIR OUTPUT.

In the production of coal, as in all other activities of modern industrialism, the constant tendency is to converge about certain centers, to concentrate into fewer hands. Certain localities have natural advantages, either as to ease of access or facilities for distribution; extensive concerns are able to profit themselves in many directions not open to their humbler competitors; large effective capital enables them to take advantage of new and improved methods and the employment of large numbers of men permits of a subdivision of labor and consequent economy of production, which is unattainable by the smaller operators.

It is natural, therefore, to assume that the major part of the tonnage of the State should be the product of comparatively few mines. A glance at the following tables will demonstrate the correctness of this assumption.

Table III gives a list of sixteen of the largest coal producers in the State. These sixteen mines, each with an output of more than 200,000 tons, comprise only  $1\frac{3}{4}$  per cent. of the whole number, yet yield over 23 per cent. of the entire product.

Table IV is a list of forty-five mines each having a total output of not less than 100,000, but less than 200,000 tons. These 45 mines, about five per cent. of the whole number, yield over 30 per cent. of the entire product. Combining the two lists, we find sixty-one mines, or about 6 $\frac{3}{4}$  per cent. of the entire number, producing 53 per cent. of the entire yield of the State. In other words, these 61 concerns produce more coal than the remaining 840 mines of the State.

A better appreciation of the relative importance of these large plants may be obtained from the following comparisons:

Of the twenty-seven coal producing states, other than Illinois, only three, Pennsylvania, Ohio and West Virginia, produced more coal than the combined output of these sixty-one mines.

The sixteen mines embraced in Table No. III. had a greater tonnage of all grades of coal than the whole of British North America, including Nova Scotia, British Columbia, the Northwest Territories and New Brunswick.

These same sixteen mines produced nearly four times as much coal in 1896 as was imported into this country during the same period, from all the countries of the world.

TABLE III—*Mines having a total output of 200,000 tons and over—  
all grades.*

Name of Company.	Location of mine.	Count.	District.	Total tonnage all grades.
Chicago Vir en Coal Co., No. 1.....	Vir den.....	Macoupin.....	5	348,333
Spring Valley Coal Co., Nos. 2 and 4.	Spring Valley....	Bureau.....	2	344,168
Pawnee Coal Co., No. 2.....	Westville.....	Vermilion.....	4	342,982
Chicago, Milw. & St. Paul, No. 4.....	Braceville.....	Grundy.....	1	340,598
Madison Coal Co., No. 5.....	Mt. Olive.....	Macoupin.....	5	316,550.
Kelly Coal Co., No. 2.....	Westville.....	Vermilion.....	4	309,522
Consolidated Coal Co. of St. Louis...	Mt. Olive.....	Macoupin.....	5	308,234
Devlin Coal Co., No. 1.....	Toluca.....	Marshall.....	2	308,205
Consol. Coal Co. of St. Louis, No. 10.	Mt. Olive.....	Macoupin.....	5	280,318
Madison Coal Co., No. 2.....	Glen Carbon.....	Madison.....	6	274,629
Spring Valley Coal Co., No. 3.....	Spring Valley....	Bureau.....	2	242,930
St. Louis & B. M. Coal Co.....	Cartersville.....	Williamson.....	7	218,696
Consol. Coal Co. of St. Louis, No. 6..	Staunton.....	Macoupin.....	5	214,765
Taylorville Coal Co.....	Taylorville.....	Christian.....	5	211,710
Pana Coal Co., Nos. 1 and 2.....	Pana.....	Christian.....	5	209,000
Star Coal Co., No. 2.....	Kangley.....	LaSalle.....	1	201,970
16 mines.....	12 towns.....	9 counties.....	6 dists.	4,472,610

TABLE IV—*Mines having a total output of 100,000 tons and less than 200,000 tons—all grades.*

Name of Company.	Location of mine.	County.	Dis- trict.	Total tonnage all grades.
P. D. Mining & Mfg. Co., Big 4.....	Centrاليا	Marion.....	6	181,576
Muddy Valley Mining & Mfg. Co.....	Hallidayboro.....	Jackson.....	7	180,316
Whitebreast Fuel Co., "B".....	Ladd.....	Bureau.....	2	176,780
Penwell Coal Co.....	Pana.....	Christian.....	5	176,492
Chicago, Virden Coal Co., No. 2.....	Auburn.....	Sangamon.....	5	173,032
Chicago, Wilmet't'n & Vermilion, No. 1	Heenanville.....	LaSalle.....	1	169,689
Big 4 Wilmington Coal Co.....	Coal City.....	Grundy.....	1	164,382
Consolidated Coal Co.....	Mission Field.....	Vermilion.....	4	161,580
Sandoval Coal Mining Co.....	Sandoval.....	Marion.....	6	158,857
Big 4 Wilmington Coal Co.....	Coal City.....	Grundy.....	1	157,372
Star Coal Co., No. 2.....	Carbon Hill.....	Grundy.....	1	153,252
Westville Coal Co.....	Westville.....	Vermilion.....	4	151,300
Consolidated Coal Co., Abbey No. 3.....	Collinsville.....	Madison.....	6	149,537
Centralia Mining & Mfg. Co.....	Centralia.....	Marion.....	6	148,159
Big Muddy Coal & Iron Co., No. 4.....	Murphysboro.....	Jackson.....	7	147,029
Consolidated Coal Co., No. 4.....	Tilton.....	Vermilion.....	4	146,191
LaSalle Coal & Coke Co., No. 1.....	LaSalle.....	LaSalle.....	1	139,273
Whitebreast Fuel Co., "C".....	Dumfriesline.....	Fulton.....	3	137,614
Breese Coal Co., "Future".....	Breese.....	Clinton.....	6	137,638
Chie., Wilmet't'n & Vermil. C. Co., No. 1	Seatonville.....	Bureau.....	2	135,718
Glenburn Coal Co.....	Glenburn.....	Vermilion.....	4	132,419
McLean County Coal Co.....	Bloomington.....	McLean.....	4	127,000
Consolidated Coal Co., Heintz Bluff.....	Collinsville.....	Madison.....	6	126,935
Madison Coal Co., No. 1.....	Glen Carbon.....	Madison.....	6	125,736
Cantrall Co-operative Coal Co., No. 2	Cantrall.....	Sangamon.....	5	122,780
LaSalle Coal & Coke Co.....	LaSalle.....	LaSalle.....	1	121,256
Consolidated Coal Co., No. 7.....	Staunton.....	Macoupin.....	5	121,220
Sangamon Coal Co.....	Springfield.....	Sangamon.....	5	120,851
Alden Coal Co., No. 1.....	Wanlock.....	Mercer.....	2	120,164
Kelly Coal Co., No. 1.....	Grape Creek.....	Vermilion.....	4	120,051
Oglesby Coal Co.....	Oglesby.....	LaSalle.....	1	119,445
Chicago, Wilmet't'n & Vermilion, "P".....	Braidwood.....	Grundy.....	1	117,009
Oden Coal Co.....	Oden.....	Marion.....	6	117,000
LaSalle Coal & Coke Co.....	Union.....	LaSalle.....	1	114,594
Marquette Three Vein Coal Co.....	Marquette.....	Bureau.....	2	114,035
Riverton Coal Co., No. 2.....	Riverton.....	Sangamon.....	5	113,398
Coal Valley Mining Co., No. 1.....	Cable.....	Mercer.....	2	111,218
Consolidated Coal Co.....	Gillespie.....	Macoupin.....	5	111,100
Star Coal Co., No. 3.....	Carbon Hill.....	Grundy.....	1	110,273
Empire Coal Co., No. 1.....	Gilchrist.....	Mercer.....	2	107,158
Springfield Coal Mining Co.....	Pana.....	Christian.....	5	101,000
Big Muddy Coal & Iron Co., No. 4.....	Murphysboro.....	Jackson.....	7	100,515
Madison Coal Co., No. 4.....	Glen Carbon.....	Madison.....	6	100,362
DuQuoin Union Coal Co., "Egyptian".....	DuQuoin.....	Perry.....	7	100,000
Chicago & Minonk Coal Co.....	Minonk.....	Woodford.....	2	100,000
45 mines.....	38 towns.....	16 counties.....	7 dists.	6,020,370

TABLE V—*Analysis of Tables III and IV by districts, with comparisons for the State for six years.*

DISTRICTS.	MINES HAVING A TOTAL OUTPUT, ALL GRADES, OF 200,000 TONS AND OVER.				MINES HAVING A TOTAL OUTPUT, ALL GRADES, OF 100,000 TONS AND LESS THAN 200,000.				ALL MINES OF 100,000 TONS OUTPUT AND OVER.			
	Number of mines.	Number of tons.	Per cent. of mines.	Per cent. of tons.	Number of mines.	Number of tons.	Per cent. of mines.	Per cent. of tons.	Number of mines.	Number of tons.	Per cent. of mines.	Per cent. of tons.
First.....	2	542,568	2.32	17.84	10	1,366,536	11.62	45.03	12	1,909,104	13.94	62.87
Second.....	3	895,303	1.61	33.27	7	865,073	3.76	32.16	10	1,760,376	5.37	65.43
Third.....	1	137,614	.47	21.88	1	137,614	.47	21.88	1	137,614	.47	21.88
Fourth.....	2	652,504	2.04	23.28	6	838,613	6.12	29.24	8	1,491,117	8.16	52.52
Fifth.....	7	1,888,910	7.52	44.97	8	1,039,874	8.60	22.17	15	2,928,784	16.12	67.14
Sixth.....	1	274,629	.98	7.01	9	1,244,200	8.92	32.95	10	1,518,829	9.90	39.96
Seventh.....	1	218,696	.79	10.11	4	528,460	3.17	24.52	5	747,156	3.96	34.63
The State, 1896.	16	4,472,610	1.77	23.60	45	6,020,370	4.99	30.43	61	10,492,980	6.76	53.03
" 1895.	9	2,344,591	1.03	13.21	45	6,346,937	5.15	35.77	54	8,691,528	6.18	48.98
" 1894.	6	1,473,550	0.72	8.61	44	6,035,084	5.25	35.27	50	7,508,634	5.97	43.88
" 1893.	14	3,501,768	1.78	17.55	45	6,291,935	5.71	31.54	59	9,793,743	7.49	49.09
" 1982.	10	2,373,599	1.19	13.29	42	5,955,091	5.01	33.37	52	8,328,690	6.20	46.66
" 1891.	6	1,475,503	0.65	9.42	37	5,175,336	4.03	33.04	43	6,650,839	4.68	42.46





TABLE VII—*Classification of mines according to output of lump coal—Percentages—Six years.*

DISTRICTS.	Mines produc- ing less than 10,000 tons.			Mines produc- ing 10,000 tons and less than 50,000.			Mines produc- ing 50,000 tons and less than 100,000.			Mines produc- ing more than 100,000 tons of coal.			All Mines.		
	Number.	Per cent. of whole num- ber in district.	Per cent. of total ton- nage in district.	Number.	Per cent. of whole num- ber in district.	Per cent. of total ton- nage in district.	Number.	Per cent. of whole num- ber in district.	Per cent. of total ton- nage in district.	Number.	Per cent. of whole num- ber in district.	Per cent. of total ton- nage in district.	Number.	Per cent. of whole num- ber in district to whole number in State.	Per cent. of total ton- nage of district to total tonnage of State.
First.....	52	60.46	2.83	13	15.12	12.13	12	13.95	32.52	9	10.47	52.52	86	9.98	18.01
Second.....	153	84.07	12.66	16	8.79	16.49	8	4.40	24.99	5	2.74	45.86	182	21.11	15.10
Third.....	197	94.25	32.11	11	5.26	48.03	.....	.....	.....	1	.47	19.85	209	24.25	3.69
Fourth.....	67	72.82	9.73	10	10.86	14.11	12	13.04	50.94	3	3.26	25.22	92	10.67	10.95
Fifth.....	49	52.68	2.11	22	23.65	22.65	14	15.05	32.12	8	8.62	43.12	93	10.79	22.52
Sixth.....	38	57.62	3.23	43	42.57	36.79	15	14.83	35.68	5	4.95	24.30	101	11.72	20.33
Seventh.....	68	67.67	11.23	20	20.20	31.16	9	9.09	41.81	2	2.03	15.80	99	11.48	9.40
The State.															
1896.....	624	72.39	6.86	135	15.66	23.53	70	8.12	33.61	33	3.83	36.00	*862	.....	.....
1895.....	607	70.99	7.35	151	17.66	25.89	67	7.84	34.93	30	3.51	31.83	†855	.....	.....
1894.....	569	68.06	6.70	169	20.21	30.00	66	7.91	32.70	32	3.82	30.60	836	.....	.....
1893.....	522	66.24	5.40	146	18.53	22.80	80	10.15	34.50	40	5.08	37.30	788	.....	.....
1892.....	577	68.77	6.30	154	18.36	24.30	69	8.22	31.80	39	4.65	37.60	839	.....	.....
1891.....	668	72.77	8.30	164	17.86	29.10	55	5.99	29.60	31	3.38	33.00	918	.....	.....

\* Real total, 901. 39 mines made no report of tonnage.

† " 874. 19 " " " "

## RANK OF COUNTIES.

The following table gives the principal coal producing counties of the State in the order of their output for 1895 and 1896. These twenty-one counties yield about 91 per cent, of entire product of the State and their combined tonnage is greater than any other state in the Union with the single exception of Pennsylvania.

TABLE VIII—*Counties producing 200,000 tons of coal and over.*

DISTRICTS.	YEAR 1895.			DISTRICTS.	YEAR 1896.		
	COUNTIES.	Rank.	Total product, all grade.		COUNTIES.	Rank.	Total product, all grades.
4	Macoupin.....	1	1,948,392	5	Macoupin.....	1	2,097,539
5	St. Clair.....	2	1,474,106	4	Vermilion.....	2	1,822,346
4	Sangamon.....	3	1,318,092	5	Sangamon.....	3	1,587,812
1	Grundy.....	4	1,261,838	4	St. Clair.....	4	1,571,323
3	Vermilion.....	5	1,177,375	1	LaSalle.....	5	1,409,085
1	LaSalle.....	6	1,084,552	1	Grundy.....	6	1,247,394
4	Madison.....	7	978,161	6	Madison.....	7	1,080,718
2	Bureau.....	8	834,541	2	Bureau.....	8	1,042,304
5	Jackson.....	9	739,661	7	Jackson.....	9	771,384
4	Christian.....	10	735,361	5	Christian.....	10	763,228
5	Perry.....	11	587,444	7	Perry.....	11	726,507
5	Marion.....	12	538,900	6	Marion.....	12	643,561
3	Fulton.....	13	468,792	3	Fulton.....	13	516,359
2	Mercer.....	14	462,011	2	Peoria.....	14	457,061
5	Williamson.....	15	461,475	2	Mercer.....	15	450,071
3	Peoria.....	16	437,457	7	Williamson.....	16	444,406
2	Marshall.....	17	346,281	2	Marshall.....	17	389,429
5	Clinton.....	18	284,487	4	Menard.....	18	347,345
3	Menard.....	19	277,738	6	Clinton.....	19	309,504
1	Livingston.....	20	267,133	1	Livingston.....	20	218,953
4	Macon.....	21	231,000	7	Randolph.....	21	202,838
	Total.....		15,920,397		Total.....		18,099,167

## PRODUCT, ACREAGE AND EMPLOYES.

TABLE IX gives the product and number of acres worked out, by districts and counties, for four years. The counties for the years 1893-'94-'95 are arranged, for the purpose of ease of comparison, in the order of the present districts.

STATE, DISTRICTS AND COUNTIES.	FOR THE YEAR 1893.			FOR THE YEAR 1894.			FOR THE YEAR 1895.			FOR THE YEAR 1896.		
	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Number of men employed.	Total tons of coal produced.	Estimated number of acres worked out.	
The State.....	*19,949,564	**3,109.07	†17,113,576	‡2,818.01	§17,735,864	2,950.69	¶17,735,864	2,950.69	901	19,786,626	3,292.49	
First District.....	3,394,686	676.87	2,685,244	561.00	2,735,711	555.00	2,735,711	555.00	86	3,034,777	698.73	
Grundy.....	1,186,919	252.21	1,130,420	260.50	1,261,838	306.50	1,261,838	306.50	27	1,247,394	321.78	
Kankakee.....	88,700	23.9	57,883	16.80	83,513	15.70	83,513	15.70	2	72,365	18.50	
LaSalle.....	1,494,826	278.4	1,134,097	212.40	1,084,552	183.70	1,084,552	183.70	39	1,409,085	284.87	
Livingston.....	542,516	99.8	342,127	67.00	267,133	40.40	267,133	40.40	15	218,953	51.96	
Will.....	81,725	21.56	20,717	4.30	38,675	8.70	38,675	8.70	3	86,950	21.62	
Second District.....	3,394,686	565.83	2,331,999	519.16	2,415,520	517.70	2,415,520	517.70	186	2,630,220	585.09	
Bureau.....	1,143,270	244.50	878,937	169.30	834,541	160.80	834,541	160.80	18	1,042,304	195.04	
Henry.....	156,261	50.40	111,640	31.25	135,967	38.15	135,967	38.15	32	136,415	34.91	
Marshall.....	92,144	27.80	134,696	27.10	346,281	58.65	346,281	58.65	12	389,429	82.08	
Mercer.....	363,206	64.70	374,093	85.35	462,011	103.62	462,011	103.62	18	450,071	113.24	
Peoria.....	620,149	138.43	611,792	140.17	437,457	100.22	437,457	100.22	66	457,061	107.09	
Rock Island.....	34,308	10.10	14,641	13.75	45,585	14.54	45,585	14.54	18	34,065	9.57	
Stark.....	23,070	6.70	22,625	6.39	22,131	6.16	22,131	6.16	20	18,085	4.24	
Woodford.....	180,131	43.20	156,665	45.85	131,557	35.56	131,557	35.56	2	162,790	38.92	



Table IX—Continued.

STATE, DISTRICTS AND COUNTIES.	FOR THE YEAR 1893.		FOR THE YEAR 1894.		FOR THE YEAR 1895.		FOR THE YEAR 1896.		
	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Number of men employed.	Total tons of coal produced.	Estimated number of acres worked out.
SEVENTH DISTRICT .....	2,501,947	225.80	2,169,507	255.70	2,137,338	246.25	126	2,163,680	305.65
Gallatin.....	17,457	2.15	155,351	4.60	20,330	4.25	10	26,350	6.81
Hamilton.....	.....	.....	.....	.....	4,645	.....	3	1,000	1.50
Jackson.....	926,242	80.08	766,514	94.90	739,631	86.53	23	771,284	95.00
Jefferson.....	.....	.....	.....	.....	27,880	5.00	2	10,100	2.10
Johnson.....	.....	.....	.....	.....	.....	.....	6	1,250	2.63
Perry.....	860,131	82.81	530,490	61.00	587,444	92.22	24	626,507	103.65
Randolph.....	193,247	21.44	194,481	35.30	194,481	31.25	16	202,838	33.00
Saline.....	36,436	5.14	36,913	5.60	45,202	8.75	141	46,435	10.18
Washington.....	72,200	5.14	49,835	2.80	56,220	9.00	4	33,360	8.50
Williamson.....	418,426	28.56	437,157	51.50	461,475	59.25	22	444,406	44.78

\* 9,040 tons included in total not properly located as to counties, but in Fifth District.

\*\* 4.19 acres

† 8,298 "

‡ 58.37 "

§ 7,877 tons

|| 6 acres

Table X gives a tolerably comprehensive history of this phase of the industry for the fifteen years during which these statistics have been collected. The estimated number of acres worked out has been given for only six years with sufficient accuracy to warrant their acceptance. Prior to 1891, when given at all, they seem to have referred to the acreage owned by the various companies rather than the area actually worked out.

TABLE X.

DISTRICTS.	LUMP COAL.		OTHER GRADES.		TOTAL PRO-DUCT.	INCREASE IN TOTAL OUTPUT OVER 1882. (First Report)		Estimated number of acres worked out.	Whole number of mines.	Highest number of men employed during year.
	Tons—2,000 lbs.	Per cent. total output.	Tons—2,000 lbs.	Per cent. total output.	Tons—2,000 lbs.	Tons.	Per cent.			
First.....	2,559,706	84.34	475,071	15.66	3,034,777	.....	.....	698.73	86	9,380
Second.....	2,146,567	79.79	543,653	20.21	2,690,220	.....	.....	585.09	186	7,103
Third.....	524,661	83.43	104,174	16.57	628,835	.....	.....	158.48	210	2,134
Fourth.....	1,555,783	55.55	1,247,177	44.46	2,802,960	.....	.....	444.54	98	4,467
Fifth.....	3,199,961	68.28	1,490,019	31.72	4,689,980	.....	.....	681.20	93	5,758
Sixth.....	2,888,375	76.51	887,789	23.49	3,776,164	.....	.....	418.20	102	4,374
Seventh.....	1,334,971	62.61	828,719	37.84	2,163,690	.....	.....	305.65	126	3,816
THE STATE:										
1896.....	14,210,024	71.86	5,576,602	28.14	19,786,626	8,769,557	79.59	3,202.49	901	37,032
1895.....	14,045,962	79.25	3,689,902	20.75	17,735,864	6,718,795	69.15	2,950.69	874	38,630
1894.....	13,865,284	81.02	3,248,292	18.98	17,113,576	6,096,507	55.33	2,818.01	836	38,477
1893.....	16,112,899	80.77	3,836,655	19.23	19,949,564	8,932,495	51.08	3,109.07	788	35,390
1892.....	14,730,963	82.47	3,131,313	17.53	17,062,276	6,045,207	55.05	3,004.39	839	33,632
1891.....	12,960,224	82.76	2,700,474	17.24	15,660,698	4,643,629	42.15	2,802.41	918	32,951
1890.....	12,638,364	82.74	2,636,363	17.26	15,274,727	4,257,658	38.65	.....	936	28,574
1889.....	11,597,963	82.74	2,419,335	17.26	14,017,298	3,000,229	27.23	.....	854	30,076
1888.....	11,855,188	82.74	2,472,993	17.26	14,328,181	3,211,112	29.15	.....	833	29,410
1887.....	10,278,890	82.74	2,144,176	17.26	12,423,066	1,405,997	12.76	.....	808	26,804
1886.....	9,246,435	82.74	1,928,806	17.26	11,175,241	158,172	1.44	.....	787	25,846
1885.....	9,791,874	82.74	2,402,585	17.26	11,834,459	817,390	7.42	.....	778	25,946
1884.....	10,101,005	82.17	2,107,070	17.83	12,208,075	1,191,006	10.81	.....	741	25,575
1883.....	10,030,991	82.74	2,092,465	17.26	12,123,456	1,105,387	10.03	.....	639	23,939
1882.....	9,115,653	82.74	1,901,506	17.26	11,017,069	.....	.....	.....	704	20,290

## VALUES AND PRICES.

Table XI presents a review of values of the product and prices paid for mining for the past fifteen years. This table, taken in connection with Table X, gives a very clear presentation of the leading commercial features of this industry. It will be noticed that in determining the average price per ton paid for mining, not all of the actual output is considered. This is because of the fact that, in many instances, it is impossible to obtain all of the necessary data with sufficient accuracy to justify its use for this purpose. Those reports only are considered which are so complete as to make the conclusions drawn from them reliable and trustworthy.

The aggregate value of all grades, as given in the first column of Table XI, is the value of the entire product, but the aggregate value of lump coal, as given in the second column of same table, includes only that portion of the product which is used in obtaining the average price. For 1896, the amount of lump or screened coal upon which these calculations are based, is 9,371,582 tons, or about 66 per cent. of the whole. This proportion, practically uniform throughout the different sections of the State, seems sufficiently large to insure substantial accuracy in the result.

In explanation of one feature of the column in Table XI, headed "Number of tons considered in finding price paid for mining," it should be said that prior to 1891, the calculations seem to have been based on the total output, rather than on lump coal alone. This will account for the relatively large tonnage considered prior to that year.



TABLE XI—*Values and prices, fifteen years, 1882-1896.*

DISTRICTS.	ALL GRADES.	LUMP COAL.						
	Aggregate value of total product at the mine.	Aggregate value of lump coal at the mine.	Average value at the mine — per ton.	Decrease from 1882—per ton.	Number of tons considered in finding price paid for mining.	Average price paid for hand mining per ton.	Decrease from 1883.	Ratio of price to value.
First.....	\$3,055,234	\$2,904,988	\$1.061	.....	2,510,149	\$0.703	.....	66.2
Second.....	2,800,358	2,568,448	1.149	.....	2,372,958	.625	.....	54.4
Third.....	565,669	532,449	1.014	.....	498,436	.515	.....	50.8
Fourth.....	2,130,415	1,396,195	.897	.....	1,457,413	.362	.....	40.4
Fifth.....	3,754,472	1,318,854	.739	.....	2,399,839	.348	.....	47.1
Sixth.....	1,995,819	1,805,011	.625	.....	589,550	.387	.....	61.9
Seventh.....	1,447,769	1,039,389	.841	.....	701,916	.285	.....	33.9
The State—1896.....	\$15,809,736	\$12,565,334	\$0.899	\$0.611	9,371,582	\$0.530	\$0.272	58.9
“ “ 1895.....	14,239,157	13,090,836	0.932	.578	7,868,006	.573	.229	61.4
“ “ 1894.....	15,282,111	13,998,588	1.009	.501	7,368,850	.671	.131	66.5
“ “ 1893.....	17,827,595	16,517,960	1.025	.485	6,061,413	.714	.088	69.7
“ “ 1892.....	16,248,645	15,158,430	1.029	.481	7,353,831	.719	.083	69.8
“ “ 1891.....	14,237,094	13,068,854	1.008	.502	6,694,004	.715	.087	70.9
“ “ 1890.....	.....	12,882,936	1.019	.491	9,056,109	.683	.119	67.0
“ “ 1889.....	.....	12,496,885	1.078	.432	9,251,250	.731	.071	67.9
“ “ 1888.....	.....	13,312,376	1.123	.387	9,611,978	.717	.085	63.9
“ “ 1887.....	.....	11,153,596	1.085	.425	10,278,890	.727	.075	67.0
“ “ 1886.....	.....	10,171,078	1.10	.41	9,246,435	.676	.126	61.5
“ “ 1885.....	.....	11,456,493	1.17	.34	9,791,874	.725	.077	62.0
“ “ 1884.....	.....	12,727,266	1.26	.25	10,101,005	.783	.019	62.1
“ “ 1883.....	.....	14,845,867	1.48	.03	10,030,991	.802	.....	54.2
“ “ 1882.....	.....	13,764,636	1.51	.....	.....	.....	.....	.....

## EMPLOYEES AND DAYS OF OPERATION.

Table XII gives the total number of employes in the whole 901 mines of the State. Table XIII deals with shipping mines exclusively, and gives a comprehensive view of the activity and productivity of this class of mines and the number and proportion of men employed in them, as well as the average number of days' employment afforded each man.

TABLE XII—*Total number of employ  s, all mines.*

DISTRICTS.	NUMBER OF EMPLOYEES UNDER GROUND.			NUMBER OF EMPLOYEES ABOVE GROUND.			ALL EMPLOYEES IN AND ABOUT MINES.			Boys under 16 years of age employed under ground (included in foregoing).
	Winter.	Summer.	Average for year.	Winter.	Summer.	Average for year.	Winter.	Summer.	Average for year.	
First.....	8,826	7,353	8,089.5	554	523	538.5	9,380	7,876	8,628	242
Second.....	6,493	4,648	6,070.5	610	508	559.0	7,103	5,156	6,129	230
Third.....	1,959	1,116	1,537.5	175	125	150.0	2,134	1,241	1,687	53
Fourth.....	3,871	2,834	3,352.5	596	554	575.0	4,467	3,388	3,927	117
Fifth.....	5,131	3,943	4,537.0	627	576	601.5	5,758	4,519	5,138	121
Sixth.....	3,839	3,218	3,528.5	535	502	518.5	4,374	3,720	4,047	70
Seventh.....	3,346	2,734	3,040.0	470	442	456.0	3,816	3,176	3,496	78
The State.....	33,465	25,846	29,656.0	3,567	3,230	3,399.0	37,032	29,076	33,054	911

TABLE XIII—*Shipping Mines. Product and days of operation. Employ  s and days of employment.*

DISTRICTS.	Number of mines.			Average number tons of coal, all grades, per mine.	Average tons lump coal per mine.	Average tons other grades per mine.	Average number of days' active operation of mines.	Total number of men employed.	Per cent. of employes in shipping mines to total number employed in all mines.	Average number of men to each mine.	Average number of days' employment per man.
First.....	38	76,833	64,549	12,021			166	8,279	88.2	218	162
Second.....	* 46	50,854	39,874	10,981			198	3,405	47.7	117	199
Third.....	† 27	17,740	14,132	3,608			157	1,128	52.8	42	159
Fourth.....	40	66,658	35,834	30,824			210	3,043	68.1	90	236
Fifth.....	50	93,021	63,337	29,784			197	5,053	87.7	101	203
Sixth.....	‡ 72	49,024	37,351	11,673			196	4,091	93.5	57	205
Seventh.....	§ 49	40,992	25,693	15,301			164	3,186	83.4	65	173
The State.....	¶ 322	57,719	41,066	16,653			186	28,185	76.1	95	191

\* Three mines make defective reports and are not included.

† One mine makes defective report and is not included.

‡ Two mines make defective reports and are not included.

§ Two mines make defective reports and are not included.

\* Eight mines not included. Real total is 330.

### WAGES, FREQUENCY OF PAYMENT.

One source of frequent disagreement between the operators and men, in the past, has been the question of time of payment. The men have, as a rule, contended for weekly payments, while the operators have found it convenient to establish semi-monthly or monthly pay-days.

Tables XIV and XV review this phase of the question and indicate that, in the large mines, the operators are generally able to arrange this matter in conformity to their own interests.

A comparison of the per cent. of the whole number of men employed in any class with the per cent. of total output will afford a very fair idea of the comparative effectiveness of labor in that class. For instance, the weekly paying class employs about 8 per cent. of the whole number of men, but produces only a little over 5 per cent. of the total output, while the monthly paying class, employing 17 per cent of all the men, yields more than 21 per cent of the total tonnage of the State. In other words, whenever, either on account of natural advantages or economical methods, the amount of labor entering into product is diminished, the independence of the laborer is reduced and the power of the employer increased in the same degree.

TABLE XIV.—*Classification of mines according to frequency of payment, numbers and product.*

DISTRICTS.	WAGES PAID WEEKLY.				WAGES PAID SEMI-MONTHLY.				WAGES PAID MONTHLY.			
	Number of men.	Number of mines.	Total tons of coal mined.	Average number of running days per mine	Number of men.	Number of mines.	Total tons of coal mined.	Average number of running days per mine	Number of men.	Number of mines.	Total tons of coal mined.	Average number of running days per mine
First.....	310	36	121,570	150	7,962	40	2,748,212	159	458	10	164,446	179
Second.....	*382	78	93,240	143	4,601	89	2,137,128	171	1,086	21	390,021	196
Third.....	†507	182	110,036	165	898	19	423,165	187	182	8	90,235	165
Fourth.....	‡822	34	453,885	188	3,078	58	2,339,995	191	22	6	9,062	91
Fifth.....	§58	12	11,655	92	3,940	41	3,419,176	201	1,154	12	1,247,769	211
Sixth.....	199	21	80,923	192	1,678	41	1,472,741	204	1,142	23	1,086,312	200
Seventh.....	¶187	38	80,924	133	1,169	24	874,253	175	1,475	21	878,995	152
The State, 1896	*2,465	401	952,278	155	23,325	303	13,419,670	183	5,519	104	3,866,840	180
" " 1895	2,486	262	740,755	151	30,509	479	13,037,204	162	5,940	99	3,751,670	180
" " 1894	4,489	348	1,651,629	152	25,592	376	11,485,471	175	8,351	90	3,965,512	168
" " 1893	9,756	516	5,234,955	175	19,781	194	10,043,875	221	5,820	62	4,667,754	220

\* Four mines—no report.

† One mine—no report.

‡ Nineteen mines omitted.

§ Seventeen mines omitted.

|| Forty-three mines omitted.

¶ Eighty-four mines in State not included.

TABLE XV.—*Classification of mines according to frequency of payment.—Percentages.*

DISTRICTS.	WAGES PAID WEEKLY.					WAGES PAID SEMI-MONTHLY.					WAGES PAID MONTHLY.				
	Per cent. of whole number of men.	Per cent. of whole number of mines	Per cent. total out-put.	Average number of men per mine	Average number of tons per mine	Per cent. of whole number of men.	Per cent. of whole number of mines	Per cent. total out-put.	Average number of men per mine	Average number of tons per mine	Per cent. of whole number of men.	Per cent. of whole number of mines	Per cent. total out-put.	Average number of men per mine	Average number of tons per mine
First.....	3.5	41.8	4	9	3,377	91.2	46.5	90.6	200	68,705	5.3	11.7	5.4	46	16,445
Second.....	6.2	42.9	3.5	5	1,196	75.8	44.9	81.5	58	27,164	18	13.2	15	45	16,251
Third.....	31.9	87	17.6	3	605	56.6	9	68	47	22,535	11.5	3.8	14.4	23	11,279
Fourth.....	20.9	34.7	16.2	25	13,350	78.5	59.1	83.4	53	40,344	.6	6.2	4.3	4	1,510
Fifth.....	1.1	18.5	2.4	5	971	76.5	63	72.8	96	83,394	22.4	18.5	24.8	96	103,981
Sixth.....	6.4	24.8	3.1	10	3,854	55.7	48.2	55.8	41	35,921	37.9	27	41.1	50	47,231
Seventh.....	6.7	45.9	4.4	5	2,130	40.9	28.8	47.7	49	36,427	52.4	25.3	47.9	70	41,875
The State, 1896...	7.8	49.6	5.3	6	2,375	74.6	37.5	73.5	77	44,289	17.6	12.8	21.2	53	37,181
" " 1895...	6.5	31	4.2	10	2,838	78.3	57	74.4	64	27,332	15.2	12	21.4	60	37,896
" " 1894...	11.7	43	9.7	13	4,746	66.6	46	67.2	68	30,546	21.7	11	23.1	93	44,061
" " 1893...	27.6	67	26.2	19	10,145	56	25	50.4	102	51,772	16.4	8	23.4	94	75,286

## EARNINGS OF MINERS.

Tables XVI and XVII give the result of an attempt to arrive at some definite knowledge of the actual earnings of the men employed in mining coal. In previous reports no attempt has been made to go deeper into this subject than to determine the average price paid per ton for hand mining. This, while of value and interest as indicating the amount of labor cost entering into the product of the mines, was yet of very little assistance in arriving at any conclusions relative to the actual income of the miners. Table XVI gives the result of the investigation among the miners who are paid by the ton. In order that the investigation might be complete and the results reliable, only those men and mines are considered for which the necessary data has been fully and clearly reported; but a large enough proportion of the product, employes and important mines are included to allow the law of average to work.

Table XVII relates to men who are paid by the day, and while the mass of facts used as a basis for these calculations is not as great as in Table XVI, they are sufficiently complete to warrant the acceptance of the results as practically correct. The close agreement of the results of these two investigations is a further confirmation of the correctness of conclusions reached.

There is one matter in connection with the question of the number of days' employment which deserves some mention. This is the fact that the number of days of actual employment for each man is based upon the reported number of running days of the mines. There is no other way in which the amount of employment can be determined, but as a matter of fact, this is not a fair criterion. There are many days during the year in which work is nominally suspended and the mine is shut down, but the miners are in their rooms, setting props, getting their coal in readiness, and in other ways preparing for the time when the mine shall again be in active operation. These days cannot be accounted for, and cannot be taken into consideration in finding the average amount earned daily while working. Then, too, the miner is dependent entirely upon that one industry for his livelihood. In most cases he is isolated from all opportunity of employment at any other calling, and in addition to this, even in times of idleness, he must hold himself in constant readiness to go down into the pit when the work starts up. Whether working or idle the expenses of the miner are continuous, and the fairest way in which to determine the remuneration for his labor is to find his average annual income and the average income for every day in the year. This will be found in the last two columns of both tables.

TABLE XVII—*An analysis of the earnings of miners, where mining is paid for by the ton.*

DISTRICTS.	Total number of men.	Number of mines.	Average number of men to each mine.	Average number of days' employment to each man.	Total product—all grades of coal.	Per cent. of total on which miners receive pay.	Average number of tons per day for each man.	Average price per ton paid for mining.	Total earnings.	Average amount earned each day while working.	Average yearly income.	Average daily income.
First.....	5,898	28	211	157	2,510,149	91	2.70	\$0.703	\$1,765,338	\$1 90	\$299 29	\$0.819
Second.....	4,463	44	101	197	2,372,958	89	2.69	.625	1,483,184	1 68	332 33	.910
Third.....	915	27	34	157	498,436	80	3.04	.515	256,515	1 78	280 34	.768
Fourth.....	1,630	30	54	211	1,457,413	95	4.22	.362	528,509	1 53	324 22	.888
Fifth.....	2,170	30	72	194	2,389,839	89	5.69	.348	833,150	1 97	383 91	1.051
Sixth.....	696	21	33	191	589,550	97	4.44	.387	229,434	1 72	329 65	.903
Seventh.....	853	25	34	149	701,916	68	5.53	.285	200,462	1 58	235 01	.643
The State.	16,625	205	81	179	9,371,582	89	3.53	.530	\$5,296,592	\$1 77	\$318 65	.873

TABLE XVII—*An analysis of the earnings of miners, where work is paid for by the day.*

DISTRICTS.	Total number of men.	Total number of mines.	Average number of men to each mine.	Average number of days employment to each mine.	Total wages.	Average daily wages while employed.	Average annual income.	Average daily income.
First.....	823	27	30	158	\$245,497	\$1 89	\$298 62	\$0.818
Second.....	550	36	15	188	180,367	1 74	327 12	.896
Third.....	80	5	16	134	20,069	1 86	249 34	.682
Fourth.....	381	29	13	163	107,591	1 72	282 37	.773
Fifth.....	108	13	8	181	34,965	1 79	323 99	.887
Sixth.....	531	48	11	222	203,479	1 73	383 23	1.049
Seventh.....	411	33	12	167	112,454	1 63	273 61	.749
The State.....	2,884	191	15	177	\$904,412	\$1 76	\$313 59	\$0.859

## PHYSICAL CHARACTER OF MINES.

A very complete review of the physical characteristics of the coal mines will be found in Tables XVIII and XIX.

TABLE XVIII—*Physical characteristics of mines.*

DISTRICTS.	Number of mines.	*KINDS OF OPENINGS.			†KINDS OF POWER USED.			‡HAND OR MACHINE MINE.		†METHODS OF WORKING COAL.			¶SYSTEM OF UNDERGROUND HAULAGE.		
		Drift.	Slope.	Shaft.	Steam.	Horse.	Hand.	Hand.	Machine.	Long Wall.	Pillar and Room.		Hand.	Horse.	
										Undercut.	Undercut.	Blasted from the solid.			
First.....	86	8	10	68	42	34	10		84	.....	26	55	5	45	39
Second.....	186	50	50	86	63	86	37		185	1	12	90	81	119	59
Third.....	210	109	35	66	27	67	116		210	.....	1	143	66	185	21
Fourth.....	98	30	5	56	41	43	7		95	2	12	9	75	30	65
Fifth.....	93	14	25	45	55	14	2		73	10	3	44	37	1	46
Sixth.....	102	2	6	94	81	21	.....		86	14	.....	41	50	18	84
Seventh.....	126	28	21	67	61	54	8		118	3	.....	36	78	29	84
The State. . .	901	241	152	482	370	319	180		851	30	54	418	392	427	398

\* Twenty-six mines omitted—full information not given.

† Thirty-two mines omit in report kind of power used.

‡ Twenty mines either do not report or operate by both hand and machine.

§ Thirty-seven do not report method of working coal, or combine both methods.

¶ Seventy-six mines do not report system of underground haulage, or use different system.

TABLE XIX—*Ventilation.*

DISTRICTS.	Total number of mines.	SYSTEM OF VENTILATION.							
		FAN.		FURNACE.		STEAM JET.		NATURAL.	
		Number of mines.	Average number of men.	Number of mines.	Average number of men.	Number of mines.	Average number of men.	Number of mines.	Average number of men.
First.....	86	36	224	22	7	7	15	21	7
Second.....	*182	45	111	47	13	8	14	82	3
Third.....	210	22	48	39	5	1	3	148	1
Fourth.....	98	34	89	44	8	2	16	18	14
Fifth.....	†84	56	92	4	6	.....	.....	24	3
Sixth.....	‡100	73	48	14	2	2	14	11	3
Seventh.....	‡115	45	46	13	32	3	18	54	4
The State—1896.....	875	311	91	183	10	23	15	358	4
“ “ 1895.....	859	291	114	256	13	32	19	225	4
“ “ 1894.....	822	296	113	176	15	21	29	301	5
“ “ 1893.....	746	286	106	189	16	20	24	251	6

\* Four mines—no report.

† Nine mines—no report.

‡ Two mines—no report.

§ Three mines—no report. Eight mines, surface mines, not included.

## MINING MACHINES.

There were fifteen less mining machines used in all the mines of the State in 1896 than in 1895. There were two less mines classed as exclusively machine mines. This class operated thirty-five less machines than in 1895, and yet produced 174,291 more tons of coal. Of the mines in which machines were used, but not exclusively, there were in 1896 twelve, four more than in 1895, operating twenty more machines and producing 165,683 more tons of coal, making a total of 339,974 more tons of coal produced in 1896 by 307 machines than by the 322 in use in 1895.

The name of company, location of mine, tonnage, number of machines, men and working days of the mines in which machines are used, is given in Tables XX and XXI.

TABLE XX—*Mines where coal is mined exclusively by machines.*

Number.	NAME OF COMPANY.	Location of Mine.	County.	District.	Number of machines.	Number of men.	Total product, all grades.	Lump coal.	Average working days.
1	Madison Coal Company, No. 5.	Mt. Olive.....	Macoupin.....	5	13	213	316,550	236,119	232
2	Consolidated Coal Company of St. Louis, No. 8.	".....	".....	5	18	199	308,234	211,432	245
3	Consolidated Coal Company of St. Louis, No. 10.	".....	".....	5	11	208	290,318	197,646	244
4	Madison Coal Company, No. 2.	Glen Carbon.....	Madison.....	6	14	221	274,629	200,978	203
5	Consolidated Coal Company of St. Louis, No. 6.	Staubert.....	Macoupin.....	5	15	244	214,765	149,169	147
6	Taylorville Coal Company.	Taylorville.....	Christian.....	5	11	160	211,710	99,327	230
7	Big Muddy Coal and Iron Company, No. 5.	Murphysboro.....	Jackson.....	7	10	244	174,629	97,231	208
8	Westville Coal Company.	Westville.....	Vernilion.....	4	5	145	151,300	133,144	245
9	Consolidated Coal Company, No. 3.	Collinsville.....	Madison.....	6	9	139	149,537	117,054	202
10	Consolidated Coal Company, Heintz Bluff.	Staubert.....	Macoupin.....	6	7	109	126,935	96,108	228
11	Consolidated Coal Company of St. Louis, No. 7.	Gillespie.....	Macoupin.....	5	12	117	121,220	81,637	209
12	Consolidated Coal Company of St. Louis, "Gillespie"	Glenburn.....	Vernilion.....	5	11	137	111,100	78,577	195
13	Glenburn Coal Company.	Murphysboro.....	Jackson.....	4	13	169	110,801	182,191	270
14	Big Muddy Coal and Iron Company.	Glen Carbon.....	Madison.....	7	10	162	100,515	55,561	157
15	Madison Coal Company, No. 4.	Girard.....	Macoupin.....	6	10	149	100,362	40,545	158
16	Girard Coal Company.	Hornsby.....	Macoupin.....	5	8	99	94,068	73,446	237
17	Consolidated Coal Company of St. Louis, "Clyde."	Trenton.....	Clinton.....	5	7	83	91,045	62,245	237
18	Consolidated Coal Company.	Murphysboro.....	Jackson.....	6	16	135	88,104	50,339	163
19	Big Muddy Coal and Iron Company.	Edwardsville.....	Madison.....	7	5	101	79,313	52,711	225
20	Madison Coal Company, No. 3.	Lebanon.....	Madison.....	6	8	82	64,808	37,890	175
21	Lebanon Coal and Machine Association, "Bennett's."	Troy.....	St. Clair.....	6	6	75	44,484	29,943	154
22	Consolidated Coal Company, "Troy Mine."	Belleville.....	Madison.....	6	3	31	41,759	32,246	204
23	Consolidated Coal Company, Gartside, No. 4.	Lenz Station.....	St. Clair.....	6	3	27	34,537	31,599	220
24	Oakland Coal Company.	Belleville.....	".....	6	3	32	31,001	24,733	209
25	Consolidated Coal Company of St. Louis, "Schuerman."	".....	".....	6	2	29	28,640	22,711	215
26	Consolidated Coal Company, "Green Mount."	".....	".....	6	3	35	26,487	22,062	171
27	Peoria Coal and Mining Company, "Knecht."	Reed City.....	Peoria.....	2	4	75	19,769	19,769	137
28	Peoria Coal and Mining Company, "Rose Hill."	Belleville.....	St. Clair.....	6	2	22	16,463	13,876	171
29	Wm. Neil Coal Company.	Bunker Hill.....	Macoupin.....	5	1	12	4,467	3,549	200
Totals—30 mines.....					248	3,514	3,468,330	2,503,739	203
20 towns.....					5 districts.....				
8 counties.....									



TABLE XXI—*Mines in which machines are used, but not exclusively.*

NAME OF COMPANY.	Location.	County.	PRODUCT OF MINES.			Number of machines	Number of men employed on machines	Number of working days per mine.
			District.	Total tons mined, all grades.	Tons cut by machine.			
Gardner & Wilmington.....	Clark City....	Kankakee...	1	71,769	21,151	9	...	117
M. & H. Zinc Co.....	LaSalle.....	LaSalle.....	1	56,920	1,460	8	24	195
Athens Mining Co.....	Athens.....	Menard.....	4	88,883	60,101	8	76	164
Pawnee Coal Co.....	Westville.....	Vermilion..	4	342,989	148,579	9	48	279
Moweaqua Coal and Mfg Co.....	Moweaqua....	Shelby.....	5	27,866	12,000	3	27	200
Sorento Prospecting and Mining Co	Sorento.....	Bond.....	6	68,669	13,874	6	36	173
Glendale Coal Co.....	Belleville....	St. Clair....	6	64,500	21,500	5	36	215
Willis Coal and M. Co.....	Willisville....	Perry.....	7	36,142	12,000	4	41	305
Gartside Coal Co., No. 1.....	Murphysboro.	Jackson.....	7	25,148	18,000	2	15	275
" " No. 3.....	"	"	7	38,465	36,963	3	37	135
" " No. 4.....	"	"	7	53,095	44,395	3	40	200
Pittsburg Plate Glass Coal Co.....	Fredonia.....	Williamson..	7	77,871	13,057	5	3	180
The State.....	.....	.....	..	952,316	403,080	59	383	203

## POWDER, ITS USE, COST, ETC.

Tables XXII and XXIII are a statement of the number of kegs of powder used for blasting purposes in this State, with the tonnage, number of miners, cost, etc.

TABLE XXII.—*Powder used for blasting purposes in hand mines.*

Districts.	Number of mines.	Number of miners.	Number of tons of coal produced.	Number of kegs of powder used for blasting.	Average cost of powder per keg.	Number of kegs used per man.	Number of tons of coal produced to each keg of powder used.
First .....	55	5,409	1,968,642	14,155	\$1 38	2.9	139
Second .....	105	2,607	1,363,321	46,348	1 70	17.5	27
Third .....	70	1,290	588,072	19,837	1 58	16.2	26
Fourth .....	87	2,199	1,794,465	51,759	1 72	19.2	35
Fifth .....	52	3,862	2,866,382	76,678	2 24	18.3	37
Sixth .....	62	1,874	1,835,461	50,461	1 42	25.0	36
Seventh.....	62	1,968	1,375,506	35,829	1 72	21.5	38
The State, 1896*....	493	19,209	11,791,849	295,067	\$1 75	15.0	39
" " 1895.....	508	17,895	10,748,224	297,253	1 95	17.0	35
" " 1894.....	275	13,304	7,599,497	204,503	2 04	15.3	37
" " 1893.....	310	17,732	10,607,847	291,708	1 98	16.0	36
" " 1892.....	320	17,635	9,881,659	250,327	.....	14.2	39
" " 1891.....	424	14,283	9,026,083	224,226	.....	15.7	40
" " 1890.....	436	13,240	7,315,157	201,285	.....	15.2	36
" " 1889.....	461	10,999	6,051,149	169,332	.....	15.4	35
" " 1888.....	415	10,205	5,972,796	159,908	.....	15.7	37

\* The total number of kegs of powder used in all mines and for all purposes during 1896, was 369,505. Of this number, 51,230 kegs were not considered in compiling this, nor the following table, either because of insufficient data or because it was used for purposes other than blasting coal.

TABLE XXIII.—*Powder used for blasting purposes in machine mines.*

Districts.	Number of mines.	Number of miners.	Total tons of coal produced.	Total number of kegs of powder used.	Average cost per keg.	Number of kegs per man.	Number of tons per keg.
First .....	.....	.....	.....	.....	.....	.....	.....
Second .....	1	68	19,769	197	\$1 80	3	101
Third .....	.....	.....	.....	.....	.....	.....	.....
Fourth .....	2	239	283,791	4,040	1 40	70	16
Fifth .....	8	759	749,840	7,059	1 49	6	106
Sixth .....	14	931	1,059,889	9,046	1 22	10	116
Seventh.....	3	56	354,457	2,866	1 40	51	123
The State, 1896....	28	2,053	2,466,746	23,208	\$1 33	11	105
" " 1895.....	30	3,201	3,196,742	25,890	.....	.....	113
" " 1894.....	36	3,378	3,255,574	33,060	.....	.....	98
" " 1893.....	37	4,091	4,375,626	49,707	.....	.....	88
" " 1892.....	34	3,439	3,664,590	38,447	.....	.....	95
" " 1891.....	27	2,789	2,798,207	28,525	.....	.....	98
" " 1890.....	25	2,733	2,654,150	32,454	.....	.....	81
" " 1889.....	24	2,763	1,956,333	19,109	.....	.....	102
" " 1888.....	25	2,552	1,916,091	19,725	.....	.....	97

FATAL ACCIDENTS.

Something has been said of the increase of the number of fatalities. Detailed information regarding this subject will be found in the following tables. Table XXIV locates the accidents by districts and counties and gives the number of men employed and number of tons of coal produced to each man killed, in every instance.

TABLE XXIV—*Fatal accidents—by mines, counties and districts.*

NAME OF COMPANY.	Location.	Counties.	Number of men killed.	Number of men employed.	Total tons of coal produced.	Number of men employed to one man killed.	Number of tons of coal produced to one man killed.
Chicago, Milwaukee & St. Paul, No. 4.....	Braceville.....	Grundy.....	1	640	340,598	640	340,598
Wilmington Star Mining Co.....	Coal City.....	..	1	99	28,595	99	28,595
Star Coal Co., No. 1.....	Carbon Hill.....	..	1	302	78,503	302	78,503
C. W. & V. Coal Co., R.....	Braidwood.....	..	2	126	5,291	63	2,645
Wilmington Mfg., Coal and Mining Co., No. 4.....	Diamond.....	..	1	470	157,372	470	157,372
Big Four Wilmington Coal Co., "Maria".....	Coal City.....	..	1	418	164,382	269	82,191
James Cahill.....	Peru.....	LaSalle.....	2	188	73,000	188	73,000
LaSalle C. C. Co.....	Rockwell.....	..	1	232	75,470	232	75,470
..	Union.....	..	1	331	114,594	331	114,594
Star Coal Co., No. 2.....	Kangley.....	..	1	488	201,970	488	201,970
C. W. & V. Coal Co., No. 1.....	Heensaville.....	..	1	310	169,689	340	169,689
Prairie Creek Coal Co.....	Streator.....	..	1	382	84,858	382	84,858
Price & Jones.....	..	..	1	124	20,329	124	20,329
Emerson Hakes.....	..	..	1	18	6,760	18	6,760
Barrackman Coal Co.....	Rutland.....	..	1	101	47,500	101	47,500
..	Coalville.....	Livingston.....	1	70	44,011	70	44,011
FIRST DISTRICT TOTALS.....	.....	.....	18	4,329	1,612,922	240	89,607

Table XXIV—Continued.

NAME OF COMPANY.	Location.	Counties.	Number of men killed.	Number of men employed.	Total tons of coal produced.	Number of men employed to one man killed.	Number of tons of coal produced to one man killed.
Spring Valley Coal Co., Nos. 2 and 4.....	Spring Valley.....	Bureau.....	2	657	344,168	328	172,084
Whitebreast Fuel Co., "B".....	Ladd.....	".....	1	540	242,630	540	242,630
Marquette Third Vein Coal Co., No. 1.....	Marquette.....	".....	1	388	176,780	388	176,780
John Summerson.....	Blossomburg.....	".....	1	290	114,035	290	114,035
Wenona Coal Co.....	Wenona.....	Henry.....	1	5	734	5	734
Sholl Bros., No. 1.....	Hollis.....	Marshall.....	1	245	63,406	245	63,406
Isaac Wantling & Son.....	Pottstown.....	Peoria.....	1	42	32,757	42	32,757
Zadoc Wynn.....	Coal Valley.....	Rock Island.....	1	31	6,057	31	6,057
Chicago and Minonk Coal and Tile Works.....	Minonk.....	Woodford.....	1	4	1,020	4	1,020
				274	100,000	274	100,000
SECOND DISTRICT TOTALS.....			11	2,446	1,082,387	222	98,399
Whitebreast Fuel Co., "C".....	Dunfermline.....	Fulton.....	1	261	137,614	261	137,614
Canton Coal Co.....	Canton.....	".....	2	26	14,029	13	7,014
H. Taylor.....	Wataga.....	Knox.....	1	14	4,000	14	4,000
THIRD DISTRICT TOTALS.....			4	301	155,643	75	38,911
Chicago and Kansas City Coal Co.....	Petersburg.....	Menard.....	1	116	76,395	116	76,395
Consolidated Coal Co., No. 4.....	Tilton.....	Vernon.....	1	192	146,191	192	146,191
Muncie Coal Co.....	Muncie.....	".....	1	26	7,250	26	7,250
D. P. Wilson.....	Grape Creek.....	".....	1	87	68,000	87	68,000
Delaware Coal Co.....	".....	".....	203	203	75,000	203	75,000
Kelly Coal Co., No. 2.....	Westville.....	".....	4	293	369,522	73	77,380
No. 3.....	".....	".....	1	107	25,772	107	25,772
Pawnee Coal Co.....	".....	".....	4	268	342,982	67	85,745
FOURTH DISTRICT TOTALS.....			14	1,292	1,051,112	92	75,079

Pana Coal Co., No. 1.....	Pana.....	Christian.....	1	210	209,000	209,000
Penwell Coal Co., No. 1.....	Springfield.....	Christian.....	2	254	176,492	88,246
Sangamon Coal Co.....	Pana.....	Sangamon.....	1	97	124,851	120,851
Springfield Coal Co.....	Springfield.....	Christian.....	1	203	101,000	101,000
Taylorville Coal Co.....	Taylorville.....	Greene.....	1	160	211,710	211,710
T. W. Griffiths.....	Roodhouse.....	Macoupin.....	1	8	2,000	2,000
Consolidated Coal Co., No. 6.....	Stanton.....	Stanton.....	1	241	214,765	214,765
Chicago and Virden Coal Co., No. 1.....	Virden.....	Stanton.....	1	271	348,333	348,333
Green Ridge Coal Co.....	Girard.....	Stanton.....	1	95	87,925	87,925
Chicago and Virden Coal Co., No. 2.....	Auburn.....	Sangamon.....	1	108	173,033	173,033
Centrall Cooperative Coal Co.....	Centrall.....	Stanton.....	1	114	122,780	122,780
Black Diamond C. & T. Co.....	Stanton.....	Stanton.....	1	74	57,000	57,000
D. J. Lloyd.....	Pawnee.....	Stanton.....	1	9	2,000	2,000
Starne's Coal and Mining Co.....	Springfield.....	Stanton.....	1	94	95,000	95,000
S. L. Flanders.....	Shelbyville.....	Shelby.....	1	4	80	80
<b>FIFTH DISTRICT TOTALS.....</b>			<b>16</b>	<b>1,945</b>	<b>1,921,969</b>	<b>120,123</b>
Madison Coal Co.....	Glen Carbon.....	Madison.....	1	149	100,362	100,362
Superior Coal Co.....	Kimmunity.....	Marion.....	1	47	32,969	32,969
Missouri and Illinois Coal Co., "Rentchler,"	Rentchler.....	St. Clair.....	1	35	55,482	55,482
St. Clair.....	Freeburg.....	St. Clair.....	1	46	60,404	60,404
<b>SIXTH DISTRICT TOTALS.....</b>			<b>4</b>	<b>276</b>	<b>249,217</b>	<b>62,304</b>
Gartside Coal Co., No. 4.....	Murphysboro.....	Jackson.....	1	57	53,095	53,095
B. M. C. & C. Co.....	DeSoto.....	Jefferson.....	1	97	64,750	64,750
Mt. Vernon Coal Co.....	Mt. Vernon.....	Percy.....	1	54	10,000	10,000
DuQuoin Union Coal Co., "Browning,"	DuQuoin.....	Percy.....	1	124	80,000	80,000
Valley and Gulf Coal Co., "Eden," No. 1.....	Sparta.....	Randolph.....	2	76	100,000	100,000
Coulterville Mining Co.....	Coulterville.....	Stanton.....	1	39	42,700	21,350
Little Muddy Coal Co.....	Percy.....	Stanton.....	1	45	24,948	24,948
Randolph Coke and Coal Co., No. 1.....	Percy.....	Stanton.....	1	39	13,984	13,984
		Stanton.....	1	39	16,200	16,200
<b>SEVENTH DISTRICT TOTALS.....</b>			<b>10</b>	<b>590</b>	<b>405,677</b>	<b>40,568</b>

Table XXIV—Concluded.

NAME OF COMPANY.	Location.	Counties.	Number of men killed..	Number of men employed.	Total tons of coal produced.	Number of men employed to one man killed.	Number of tons of coal produced to one man killed.
The State, 1896.....	.....	.....	77	11,179	6,478,927	145	84,142
" 1895.....	.....	.....	75	10,529	5,221,205	142	70,557
" 1894.....	.....	.....	72	11,734	5,270,632	163	73,203
" 1893.....	.....	.....	69	8,948	5,221,582	130	75,672
" 1892.....	.....	.....	57	13,919	8,047,920	244	141,192
" 1891.....	.....	.....	60	13,298	7,086,723	222	118,112
Averages for six years.....	.....	.....	68	11,601	6,221,165	169	91,041

Table XXV assembles this information by districts and includes also the number of widows and orphans, carrying the totals for the State through a period of eleven years.

TABLE XXV.—*Fatal Accidents—Eleven Years.*

DISTRICTS.	NUMBER OF MEN KILLED.			Wives made widows.	Children left fatherless.	Total number of employ'cs.	Total number of tons of coal mined —all grades.	Number of em- ploy'cs to each life lost.	Number of tons of coal mined to each life lost.
	Total.	Married	Single.						
First.....	18	14	4	14	58	9,380	3,034,777	521.11	168,542
Second.....	11	6	5	6	23	7,103	2,690,220	645.72	244,565
Third.....	4	3	1	3	6	2,134	628,835	533.50	157,208
Fourth.....	14	7	7	1	16	4,467	2,802,960	319.06	200,211
Fifth.....	16	10	6	8	40	5,758	4,689,980	353.62	230,624
Sixth.....	4	1	3	1	2	4,374	3,776,164	1,093.50	944,041
Seventh.....	10	6	4	5	10	3,816	2,163,690	381.60	216,369
The State—1896.....	77	47	30	38	155	37,032	19,786,626	483.53	256,969
“ “ 1895.....	75	44	31	42	111	38,630	17,735,864	515.06	236,478
“ “ 1894.....	72	44	28	41	123	38,477	17,113,576	534.00	237,688
“ “ 1893.....	69	34	35	32	106	35,390	19,949,564	513.00	289,124
“ “ 1892.....	57	24	33	24	63	33,632	17,062,276	590.00	313,372
“ “ 1891.....	60	39	21	37	112	32,951	15,660,698	549.00	261,012
“ “ 1890.....	53	33	20	33	75	28,574	15,274,727	539.10	286,316
“ “ 1889.....	42	24	18	20	75	30,076	14,017,298	716.10	333,745
“ “ 1888.....	55	28	27	28	89	29,410	14,328,181	534.70	260,512
“ “ 1887.....	41	24	17	22	77	26,804	12,423,066	654.00	302,002
“ “ 1886.....	52	30	22	30	76	25,846	11,175,241	497.00	214,909
Totals—11 years.....	653	371	282	347	1,062	356,822	174,527,117	.....	.....
Averages—11 years.....	59.36	33.72	25.63	31.54	96.54	32.43	15,866.101	543.06	265,739

#### FATAL ACCIDENTS—BY CAUSES.

Table XXVI gives the fatal accidents by principal causes for 1896, by districts, while Table XXVII gives the same information for the State as a whole for a period of nine years.

TABLE XXVI.—*Fatal Accidents—by Causes—1896.*

CAUSES.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Sixth District.	Seventh District.	Totals.	Percentages
Falling roof or sides...	14	4	3	8	3	4	5	41	53.25
Blasts, explosions, etc.	1	.....	.....	2	3	.....	3	9	11.69
Cages.....	2	.....	.....	1	.....	.....	1	6	7.79
Falling down shaft.....	.....	3	.....	1	.....	.....	.....	6	7.79
Pit-cars.....	.....	2	1	1	1	.....	.....	5	6.49
Gas, fire-damp, etc.....	.....	.....	.....	.....	2	.....	.....	2	2.60
Other causes.....	1	2	.....	1	3	.....	1	8	10.39
Totals.....	18	11	4	14	16	4	10	77	100.00

TABLE XXVII.—*Fatal Accidents—by Causes.*

CAUSES.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	Totals.	Percentages for 9 years.
Falling roof or sides...	33	26	36	33	28	48	43	38	41	326	58.22
Blasts, explosions, etc.	9	3	4	11	4	6	8	12	9	66	11.79
Cages.....	2	4	4	4	4	4	8	4	6	40	7.14
Falling down shaft.....	4	2	.....	1	8	3	5	4	6	33	5.89
Pit-cars.....	6	5	3	2	6	2	6	5	5	40	7.14
Gas, fire-damp, etc.....	.....	.....	5	4	2	.....	.....	5	2	21	3.75
Other causes.....	1	2	1	5	5	3	.....	7	8	34	6.07
Totals.....	55	42	53	60	57	69	72	75	77	560	100.00

## NON-FATAL ACCIDENTS.

The non-fatal accidents have been more numerous in 1896 than in 1895, but the average number of days lost has been slightly less, though the number of dependents was larger.

Table XXVIII gives, in detail, the results of the inquiry into this subject:

TABLE XXVIII.—*Non-fatal accidents, dependents, time lost, etc.*

Districts.	Total accidents.	Single.	Married.	Children.	Dependents.	Total time lost days.	Average number days lost per man.	Number of men reported as losing time. †
First.....	215	95	120	345	450	7,348	35.4	207
Second.....	130	63	67	120	178	2,282	25.2	90
Third.....	10	5	5	6	11	427	42.7	10
Fourth.....	69	36	33	75	105	3,220	48.0	67
Fifth.....	*98	44	50	128	174	2,972	32.3	92
Sixth.....	*91	45	45	93	127	8,078	35.7	86
Seventh.....	*59	23	28	105	93	1,568	32.6	48
The State.....	672	311	348	872	1,138	20,895	34.8	600

\* Thirteen men not reported whether married or single.

† Seventy-two men still idle, or "time lost" not reported.



## ALL ACCIDENTS.

## PER CENT. CAUSED BY FALLING ROOF AND SIDES.

The most prolific source of all accidents is from falling roof and sides. The following table gives the percentages of accidents from this cause, by districts for 1896 and the totals for the State for thirteen years:

TABLE XXIX—*Per cent. of accidents caused by falling sides and roof.*

Districts.	FATAL ACCIDENTS.				NON-FATAL ACCIDENTS.				ALL CASUALTIES.			
	Total.	Falling roof and sides.	All other causes.	Per cent. caused by falling roof and sides.	Total.	Falling roof and sides.	All other causes.	Per cent. caused by falling roof and sides.	Total.	Falling roof and sides.	All other causes.	Per cent. caused by falling roof and sides.
First.....	18	14	4	77.77	215	137	78	63.72	233	151	82	69.09
Second.....	11	4	7	36.36	130	71	56	56.92	141	78	63	55.31
Third.....	4	3	1	75.00	10	4	6	40.00	14	7	7	50.00
Fourth.....	14	8	6	57.15	69	43	26	62.31	83	51	32	61.44
Fifth.....	16	3	13	18.65	98	46	52	46.93	114	49	65	42.98
Sixth.....	4	4	.....	100.00	91	37	54	40.65	95	41	54	45.26
Seventh.....	10	5	5	50.00	59	32	27	54.23	69	37	32	53.62
The State, 1896.	77	41	36	57.14	672	373	299	55.50	749	414	335	55.27
" 1895.	75	38	37	50.67	605	338	267	55.90	680	376	304	55.29
" 1894.	72	43	29	58.30	521	294	227	60.10	593	337	256	56.82
" 1893.	69	48	21	69.60	403	254	149	63.30	472	302	170	63.98
" 1892.	57	28	29	49.10	370	234	136	63.20	427	262	165	61.12
" 1891.	60	33	27	55.00	367	227	140	61.90	427	260	167	60.88
" 1890.	53	36	17	67.90	294	196	98	66.70	347	232	115	66.85
" 1889.	42	26	16	62.00	201	129	72	64.20	243	155	88	63.78
" 1888.	55	33	22	60.00	179	112	67	62.60	234	145	89	61.53
" 1887.	41	28	13	68.30	180	124	56	68.90	221	152	69	68.77
" 1886.	52	32	20	61.50	171	109	62	64.50	223	141	82	63.22
" 1885.	39	20	19	51.30	176	118	58	67.00	215	138	77	64.18
" 1884.	46	26	20	56.50	197	135	62	68.50	243	161	82	66.25
Totals--13 y'rs.	738	432	306	58.53	4,336	2,643	1,693	60.95	5,074	3,075	1,999	60.60

## ALL ACCIDENTS, BY OCCUPATIONS.

Table XXX analyzes the accidents by occupation of the injured.

TABLE XXX.

OCCUPATION.	FATAL ACCIDENTS.								NON-FATAL ACCIDENTS.							
	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Sixth District.	Seventh District.	The State.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Sixth District.	Seventh District.	The State.
Miner .....	16	8	3	9	7	1	9	53	166	92	7	51	31	23	35	406
Driver .....		1	1					3	22	14		10	21	22	5	96
Loader .....				2	1	2		5				1	13	15	1	30
Laborer .....		2			1			3	1	10			7	2		21
Helper .....												1	9	5	2	17
Cager .....	1				1		1	3	3	6						16
Timberman .....								2	2			2	1	5	2	12
Roadman .....									6				3			9
Blaster .....														7		7
Blacksmith .....					1			1	2	1			2	1		6
Top man .....				1	1			2	1			1		3		5
Fireman .....				1				1	2	3						5
Coal-picker .....									4							4
Trapper .....									2	1			1			4
Carpenter .....					1			1					3			3
Sinker .....										3						3
Teamster .....									1					1		2
Engineer .....	1							1					1	1		2
Farmer .....														2		2
Weigher .....									1					1		2
Section man .....									2							2
Track man .....													1			2
Gripper .....								1					2			2
R. R. employé .....					1									1		1
Sulphur picker .....														1		1
Pipe man .....														1		1
Mason .....													1			1
Oiler .....					1			1					1			1
Cutter .....													1			1
Mine manage .....					1			1								
Machine man .....						1		1								
Totals .....	18	11	4	14	16	4	10	77	215	130	10	69	98	91	*59	672

\* 8 men included in total in Seventh district occupation not reported.

## SUMMARY.

Tables XXXI and XXXII give a brief summary of the information contained in the preceding tables, and completes the consideration of this subject.

TABLE XXXI—*Summary.*

DISTRICTS.	MINES.						MINERS.			Av. number of running days per mine—shipping mines	Av. number of working days per man.	Number of kegs of powder used.	CASUALTIES			
	Number of counties.	Number of mines..	Number of shipping mines.	Number of mines in local trade.	Number of new mines.	Number of abandoned mines.	Estimated number of acres worked out during the year.	Average number of miners employed.	Highest number of miners employed.	Number of boys underground.			Number of men killed.	Number of widows.	Number of children left fatherless.	Number of injured.
First .....	5	26	38	48	14	10	698.73	7,876	9,380	242	166	157	14,155	18	58	215
Second .....	7	186	49	137	13	33	585.09	5,156	7,103	230	198	197	46,348	11	6	23
Third .....	6	210	29	182	31	31	158.48	1,241	2,134	53	157	157	19,837	4	3	10
Fourth .....	7	98	40	58	10	7	444.54	3,388	4,467	117	210	211	51,759	14	1	16
Fifth .....	10	93	50	43	12	19	681.20	4,519	5,758	121	197	194	76,678	16	8	40
Sixth .....	5	102	74	28	10	2	418.20	3,720	4,374	70	196	191	50,461	4	1	2
Seventh .....	10	126	51	75	52	7	305.65	3,176	3,816	78	164	149	35,829	10	5	10
The State.....	51	901	330	571	142	115	3,292.49	29,076	37,032	911	186	179	295,067	77	38	155

TABLE XXXII—*Summary.*

DISTRICTS.	Average price paid per ton for hand mining.	PRODUCT.			AVERAGE VALUE PER TON OF COAL AT THE MINES.		AGGREGATE HOME VALUE OF TOTAL PRODUCTS.		
		Total tons of lump coal—2,000 lbs.	Total tons of other grades of coal.	Total tons of coal mined, all grades.	Lump coal.	Other grades.	Value of lump coal.	Value of other grades of coal.	Value of total product—all grades.
First ....	\$0.703	2,502,586	475,072	2,977,658	\$1.061	\$0.316	\$2,904,988	\$150,246	\$3,055,234
Second ..	.625	2,146,567	513,653	2,690,220	1.149	.536	2,568,448	291,910	2,860,358
Third ....	.515	524,661	104,184	628,845	1.014	.317	532,449	33,221	565,669
Fourth....	.362	1,555,783	1,247,159	2,802,942	.897	.588	1,396,195	734,220	2,130,415
Fifth ....	.348	3,136,961	1,490,029	4,626,990	.739	.963	2,318,854	1,435,617	3,754,472
Sixth ....	.387	2,888,372	787,692	3,676,064	.625	.242	1,805,011	190,808	1,995,819
Seventh..	.285	1,235,994	893,721	2,129,715	.841	.457	1,039,389	408,380	1,447,769
State...	.530	13,990,924	5,541,510	19,532,434	.899	\$0.585	\$12,565,334	\$3,244,402	\$15,809,736

## FIRST INSPECTION DISTRICT—1896.

MR. GEORGE A. SCHILLING,

*Secretary Bureau of Labor Statistics, Springfield, Ill.:*

DEAR SIR:—In accordance with section twelve of "An act providing for the health and safety of persons employed in coal mines," I herewith submit to you the First Annual Coal Report of the First Inspection District (as re-districted by the 39th General Assembly) for the year ending July 1, 1896.

This report contains tabulated statements by counties of the number of mines that are in operation in this district; the number of shipping mines; number of mines in local trade; the number of new and abandoned mines; estimated number of acres of coal worked out during the year, with the total number of persons at each mine; number of tons of lump and other grades of coal; the average value of lump coal, with the average value of other grades at the mine; the aggregate value of the total product; the number of fatal and non-fatal accidents; number of widows and orphans; number of miners employed in the mines summer and winter; number of boys under sixteen years of age employed in the mines; average number of running days; the number of kegs of powder used, and the number of tons of coal mined by machines.

The following summary is for the fiscal year 1896:

Total number of mines.....	86
Number of shipping mines.....	38
Number of local mines.....	48
Number of new mines.....	15
Number of abandoned mines.....	11
Estimated number of acres worked out.....	588.25
Number of miners employed in winter.....	7,700
Number of miners employed in summer.....	6,309
Number of others employed in winter.....	1,502
Number of others employed in summer.....	1,277
Number of boys under sixteen years of age.....	242
Average number of running days.....	179.8
Number of kegs of powder used.....	16,876
Number of men injured in non-fatal accidents.....	215
Number of men killed by injuries received.....	18
Number of widows.....	14
Number of orphans.....	58
Total tons of all grades produced.....	3,034,778
Total tons of lump coal.....	2,559,706
Total tons of other grades.....	475,063
Number of tons produced to each fatal accident.....	163,043
Number of tons produced to each non-fatal accident.....	14,115
Average value of lump coal at the mine.....	\$1.117
Number of mining machines in use.....	11
Tons of coal produced by machines.....	22,611
Number of men employed at machines.....	61

The following table shows the total production by counties, with the increase or decrease for the years ending July 1, 1895 and 1896:

Counties.	1895.	1896.	Increase, tons.	Decrease, tons.
Grundy.....	1,261,838	1,247,394		15,444
Kankakee.....	83,513	72,395		11,118
LaSalle.....	1,084,552	1,409,085	324,533	
Livingston.....	267,133	218,953		48,180
Will.....	38,675	86,951	48,276	
Totals.....	2,735,711	3,034,778		
Net increase.....			299,067	

*New Mines.*—LaSalle County: In the month of October, 1895, the C., W. & V. Coal Company opened a new shaft, located two miles east of Streator on the line of the Santa Fé R. R. The shaft is sunk to a depth of 116 feet to seam No. 7, which is 6 feet thick. The curbing is 6x8 timber and the eages are self-dumping. The tower and other buildings on the surface are covered with fire-proof material. In June of this year a new air and escape shaft was completed; the entire plant is of a first-class character with double hoisting engine geared, and promises to be one of the large producers of the country.

Baer & Roberts have opened a new shaft north of Streator. At present the entries are being driven to prove the seam.

Price & Jones have sunk a new shaft in the bottom land along Prairie creek, at North Streator. The shaft is sunk in to the same seam as they were operating in their old shaft and does away with a slope at their old shaft, which was in bad order.

Livingston County: John Marshall reopened his old shaft last year and operated with twelve men for seven months.

Grundy County: The Chicago, Wilmington & Vermilion Coal Company has sunk a new shaft near Braidwood. The shaft is 99 feet deep and is equipped in a substantial manner. The seam is 3 feet thick with a good fire-clay mining. The mine is at present troubled with a good deal of water, but it is expected that this will become less as the mine is developed.

Joseph D. Meager, of Morris, has sunk a new escapement shaft. This has made a great improvement in the ventilation of his mine.

The Whitebreast Fuel Company is now operating the Clarke City and Gardner mines. Extensive repairs are now going on with a view of working these mines to their full capacity.

John Casewell has leased the mine formerly operated by Harry Smoek at Pleasant Hill, two miles south of Streator.

*Fires.*—On October 11, 1895, the tower buildings and elevator screen house of the B shaft, Clarke City, was destroyed by fire. The fire originated in or about the bins in which the coal was stored; the loss to the company was \$7,000.

*New Mines.*—Livingston County: The Streator Clay Manufacturing Company has sunk a new shaft down to seam No. 2, a depth of 222 feet. The seam is 2 feet and 3 inches thick. This shaft was sunk as an escape shaft for the

shaft operating seam No. 7, but the company decided to sink to seam No. 2 for the purpose of mining the fire clay under the coal seam, which is of a superior quality. In sinking they passed through a seam of coal of good quality; this seam is 3 feet and 7 inches thick and was found at a depth of 130 feet from the surface. It is their intention to mine the coal of this seam for the purpose of burning the clay. The tipples and buildings are of a substantial character, and their engines are double hoisting engines, 10x12 geared.

Sylvester Kimes has sunk a new shaft at Coalville on land leased from Richard Evans; it is intended to supply local trade.

William Burrell has sunk a new escape shaft at his mine south of Streator. This has made a great improvement in the ventilation of the mine.

Richard Evans & Sons, of Pontiac, began sinking their escape shaft in the fore part of June. It is now nearing completion. This will enable the ventilation of this mine to be put in proper order.

*Improvements.*—The LaSalle County Carbon Coal Co. has begun the system of splitting the air current and is putting in several overcasts in their Union mine, and when completed will be a great improvement on the system of ventilation.

The Acme Coal Company, of Streator, has put in a double Murphy fan 4 feet in diameter. It has improved the ventilation of their mine.

*Infractions of the Law.*—The Prairie Creek Coal Company, Streator, was found to be operating their Otter Creek mines without having a duly qualified manager, but after a good deal of correspondence and several personal interviews, they decided to comply with the law.

The Standard Oil Company, of Seneca, was found to be operating their mine at Seneca without a certified mine manager and a night shift engineer under 18 years of age. After being notified they complied with the law in both cases.

*Abandoned Mines.*—The mine operated by Alex Begrun & Sons at Pleasant Hill has been abandoned. Owing to it being opened into other old mines, excessive rains filled the workings with water.

The C. W. & V. Coal Company has abandoned their No. 3 mine south of Streator.

John Marshall has again abandoned his mine owing to water coming in from other mines.

*Will County.*—The C. W. & V. Coal Co. has abandoned their Q. shaft at Braidwood owing to the great expense incurred in timbering and pumping water, this being a constant source of trouble and expense.

*Labor Troubles.*—On May 18 the miners employed at the Barrackman Coal Company's mine went out on a strike because the company refused to credit the miners with the full weight of their pit cars. When a car weighed, say 48 pounds over the hundred pounds the odd pounds were not given to the miner. After the miners were idle two weeks the company agreed to credit them with the weight of all coal passing over the screens.

*Accidents.*—Eighteen fatal accidents occurred last year. After a careful investigation of the causes of such accidents I find that eleven of them were caused by falling rock and three by falling coal, two caught by a cage, one by a running

belt and one by a blast blowing through a pillar; this accident was due to a want of knowledge on the part of the victim of the point in the pillar where the blast was placed, but could have been prevented if a more careful inquiry had been made before the blast was fired. The accident from the running belt was not seen by any person and it was supposed the man had attempted to kick the belt off the pulley with his foot.

The other sixteen accidents were caused by carelessness on the part of some of the victims and a lack of knowledge on the part of the others.

In making inspections of the various mines in the first inspection district I have found men working under dangerous rocks, and, in calling their attention to this, they felt hurt at having their judgment of such matters called in question. On different occasions, in going through the long wall mines of the district, I have found men cutting the brushing on their road without having any props under it to secure it while they were cutting and in a number of instances have stopped and put in timber to secure the rock. Some have said that the reason they failed to do this was that such props were in the way of getting the coal out on the road and this is often the case, but I am glad to say that after explaining the danger and the risk incurred in following this practice, the majority of the English speaking miners put props in the center of their road when cutting their brushing, but a large number of them who do not understand what is said to them still run great risks in this respect, and especially when the mine has been idle for some days, their working place will be generally in bad order. The roof settles down in front of the coal and in some instances caves altogether. When this is the case it would require most of the day to secure the roof, but in their anxiety to load all the coal they can, in case they do not work the following day, it very often happens that the roof is only secured in a temporary way, resulting in a large number of fatal accidents.

✓ *Fatal Accidents*—On July 2, 1895, at the Big Four Coal Company's No. 2 mine, Coal City, Patrick Greening, a miner, aged 49 years, was instantly killed by a fall of coal in his room. The coal was mined under and sprags were set in front of it upon which the coal was resting. A prop was set about fifteen inches in front of the coal between the sprags. He proceeded to take down the coal by knocking out the first sprag, but the coal did not come down, so he reached past the prop and knocked out another sprag, upon which the coal fell suddenly, catching him between the coal and the prop, breaking his neck. He died instantly. Deceased left four children and a widow.

✓ July 16 Dominico Ariano, a miner, 24 years of age, was instantly killed by a fall of rock at the face of his room. The cause of the accident was evidently due to incompetency or carelessness. On examination I found the nature of the roof to be what we call good, but that the props supporting the same were entirely too far apart; where the rock fell they were nearly nine feet apart, allowing the rock an opportunity to break, which it did, throwing one prop between. The rock that fell on him would weigh over a ton; his head was crushed on a sulphur that was in the gob. He was a single man and leaves no one dependent in this country.

✓ On October 13, 1895, at the Wilmington Star Mining Company, No. 3 mine, Coal City, James Sumerville, engineer at the mine, was caught in the belting that ran the grind stone and was taken around the shaft and pounded to a pulp. It seems that he had been grinding a knife used for splitting cap pieces, and it is supposed he had attempted to push the belt off with his foot (which was sometimes carelessly practiced) and became entangled with the belting and thus met his death. No one saw it happen, and he had been dead some time when found, as he was quite cold. He left a widow and four small children. He was 35 years of age.

✓ October 22, 1895, Michael Szaych, aged 65 years, married, employed by the LaSalle County Carbon Coal Company, in their Rockwell mine, at LaSalle was killed. About 5 p. m. a cage load of men had just been signalled to be hoisted to the top. Just as the cage was slowly rising from the bottom, the deceased came running towards the cage on the opposite side from where the cager was standing at the signal, and throwing a pick he carried into an empty pit car, he rushed forward and attempted to get on the cage. A miner, Edward Timm, who was on the cage, called to him in his own language, to keep back that the cage was signalled away to the top, but he took no notice of the men calling to him, but made an effort to get on the cage, and as the cage at that time was raised about 12 inches from the bottom, his foot caught on the bottom of the cage, throwing him face forward into the cage. The cager at once gave the signal to stop the cage, which the engineer did, but was too late. The deceased was caught between the cage and shaft timbers and died one hour and forty minutes after the accident. He left a widow and five grown children.

✓ November 5, 1895, Charles Cadman aged 57 years, who, with his two sons, was employed as a miner in Price & Jones' shaft at Streator, had fired a blast about 4:30 p. m.; he went back into his room immediately after the blast was fired, and taking his pick sounded the roof, and said to his son William, that it was all right. What is termed a slip or roll was on the left side of his room and spread out into the room for a distance of 16 feet. The blast fired had loosened the coal into the slip on the left pillar, but a portion of the coal was hanging on the slip, he started to mine it off, when five minutes after a large piece of rock fell on him killing him instantly. He left a widow and ten children, five of whom are able to take care of themselves.

✓ November 7, 1895, John Kazoid, aged 27 years, employed as a miner by the LaSalle County Carbon Coal Company, in their Union mine, at LaSalle, was fatally injured by a fall of coal and rock, while at work in the face of his working place. The deceased was wedging coal down where a slip was running parallel with the face of the coal. The slip continued up through the roof stratum, overlaying the coal and as the coal was loosened by the wedge, the slate and coal fell simultaneously and before he could get from under it, and he was crushed. When removed to his home it was found that his back was broken and he had sustained internal injuries. He died on December 12, leaving a widow and one child.

✓ Matthew Svoda, aged 45 years, employed by the Star Coal Company in their No. 2, at Kangley, was instantly killed by a fall of slate and soapstone.



in his room at 12:15 p. m. The deceased and his son were taking out the pillars of rooms 38 and 39 in the twenty-second right entry, and at the time stated, had fired a blast in room 39. He went in just after the blast was fired to find out how the coal was loosened, when a fall of slate caught him and killed him. A slip on the dividing line between the black slate and soapstone was lying at an angle of 30 degrees, though the pillar props were set to the soapstone side of the slip, but none under the black slate, and when the blast was fired it removed the coal from under the slate. It is supposed he was looking for a pick when the fall caught him. Mike Clugha and Andrew Droviskie, who were the first to go there, stated that the deceased went back in his room too soon after firing the blast. He left a widow and four children.

James Corrello, aged 45 years, miner, employed by the Big Four Wilming-ton Coal Company, No. 2 shaft, near Coal City, was instantly killed by a fall of rock. He and his brother were at work mining coal in room 54 and he was getting the loose coal from the left side of the room. His brother sounded the room with his pick and said it was all right. A row of props were set along the line of the face of the room, three and one-half feet from the coal, with the cap pieces placed parallel with the line of the breakers in the roof; a slip on the edge of the props was in the roof and when the coal was taken down another slip was cleared close on the face of the coal, which continued along the face of the room for a distance of 11 feet. The deceased was passing coal to his brother, when, without warning, a large rock 11 feet long and 21 inches deep by 26 inches, fell and killed him. The placing of two props under this rock would have prevented the accident. Andrew Sloan, who was the first to go there, stated that two props would have been sufficient to sustain the roof. Deceased left a widow and three children.

Martin Spangeil, aged 28 years, employed as a cager by the Rutland Coal Company, was fatally injured by a descending cage. He had just signalled the loaded cage to the top and for some reason after waiting a little time, walked through the bottom under the descending cage, which pushed him down in the sump. After getting the cage raised off him, it was found he was seriously injured internally. He died four days after the accident, leaving a widow and two children.

December 28, 1895, John Larreck, aged 30 years, married, employed as a miner in James Cahill's shaft at Peru, LaSalle county, was instantly killed by a fall of rock in his long-wall working face. The deceased was putting in props along the face of his room, his partner having gone home at half-past eleven. He was alone, and had put in props for a distance of fifteen feet, but at that point a slip was in the roof and he was in the act of putting a prop in and had struck it two blows with a sledge, when the prop sprung out from under the rock and suddenly a piece of it, weighing 3,000 pounds, fell and killed him. He was considered a careful miner. Left a widow and one child.

December 30, 1895, John W. Cave, miner, aged 28 years, single, was fatally injured at 4 p. m. in the C. W. & V. Coal Company's No. 2 shaft, two miles east of Streator. The deceased and his father were at work on the night shift in room No. 2, on first east entry on the south side of the shaft. This

entry was turned off at thirty-six feet from the shaft bottom, and on the north side another entry running east was turned off at a distance of twenty-seven feet from this entry, three rooms were driving south, and in the third room John Sanders and Andrew Malleck had prepared a blast in the top coal, and, when they were tamping their blast, they rapped on the coal as a signal to the men in the other entry, whose rooms were driving south of the entry on the south side of the shaft. They received an answer from another miner, and at this time the deceased and his father were standing in the opening of their own room, and remarked to Patrick McLange, who had just rapped on the coal, that the other room was very near being holed. They had just moved their tool-box and dinner pails from a point twelve feet back on the entry into their own room. They supposed the shot in the opposite room was at the point where they had just moved their tools; thinking they were safe, they sat down to eat their lunch, when the blast in the opposite room was fired and shot in a direct line with where John W. Cave was sitting, striking him on the left side of the head. He died before reaching home.

✓ Michael Murphy, aged 34 years, was killed by falling rock in the Braceville Coal Company's No. 4 mine. The deceased was employed as a miner, but his room having been driven the distance required, where the cross-entry was cutting it off, stopped mining in his room on the 22nd of February, and, as there was no other room ready for him to start in just then, he asked the night boss to let him work a few shifts on the night shift, and on the night of the 24th went in to do company work. The night boss told him to start brushing between the two last rooms on the third northeast entry, and at 11:45 p. m. Arthur Green, the night-shift driver, went in to get his car, which was loaded with rock, and at that time he stated to the driver that he would have to go to the bottom and sharpen some picks. No one saw him from that time until Alfred Spiers, the fire boss, in going his rounds of the mine at 2 o'clock in the morning went down the entry to see how he was getting along. He found him lying dead under a rock 3x4 feet, 10 inches thick. He had been cutting with his pick along the left side of the roadway, and on the right side a slip ran through the rock, and when about five inches of cutting had been done on the left side another slip started running to the right, which loosened the rock, and it must have fallen without warning. He left a widow and five children.

✓ March 3, 1896, Mark Noon, miner, aged 40 years, employed by the C., W. & V. Coal Company in their No. 1 mine, at Heenanville, was fatally injured by a fall of coal. He and his brother were engaged withdrawing the pillar between Nos. 4 and 5 room in the fourth southeast entry about 10 a. m. They fired a blast in the bottom coal which cleared it from under the top coal for a distance of seven feet along the pillar and four feet under. They then went back out of the room to eat their lunch, and ten minutes later they went back to see how the blast had done. The deceased, without saying anything to his brother, took a pick and went under the top coal and started to undercut a point next the old room; the coal, being loose on both ends, suddenly rolled over and pushed him against a loaded pit car which was standing close

up to the coal. He received internal injuries from which he died four hours after. He left a widow and five children.

✓ April 13, 1896, Thomas Reilly and Chas. Hoyer, aged respectively 27 and 22 years, both unmarried, were instantly killed by a fall of rock in the R shaft of the C., W. & V. Coal Company, at Braidwood, about 4 o'clock in the morning. The deceased were at work in the bottom of the shaft preparing to put in a sill timber in the bottom of which to place a set of timbers; two props were set up to the rock, close to the north end of the shaft; a piece of rock fell and knocked one of them out; the boss of the night shift; Wm. Hoyer, just about that time came past them and told them to put up the prop again; he then left them and went into another part of the mine, and as none of the other men had seen them until the accident, it is supposed they were preparing to put up the prop, as they were ordered to do, when, without warning, a large mass of soapstone, measuring 9x4x3 ft. 6 in. thick fell on them. It was stated by one of the men called there to get them from under the rock that Chas. Hoyer lived a few minutes. He was the only support of a widowed mother.

✓ June 3, 1895, George Harcharik, aged 53 years, miner, employed by the Prairie Creek Coal Company, in the Otter Creek mine, two miles east of Streator, was fatally injured by a fall of rock in his working room No. 3, on the sixth east entry, at 3:30 p. m. The deceased and his son had just started to work in the room that morning; the son objected to work in the room owing to a roll or fault that was in the coal seam. The pit boss told them that he would pay them for room turning, if they would work in it; they then prepared a blast in the bottom coal, and shortly after firing the blast, they started to load a pit car with coal. The deceased was in the act of stooping under the top coal when a piece of rock 24x18 in., which had been loosened by the force of the blast, fell without warning, crushing him on the left side, injuring him internally, from which he died shortly after being taken home. He left a widow and eight children, three of whom are able to earn their own living.

With precaution, after the blast was fired, this accident would not have happened.

✓ June 18, 1896, Peter Rossetta, miner, aged 36 years, was instantly killed by falling rock in longwall working place in the Diamond No. 4 mine of the Wilmington Mining and Manufacturing Company, in Grundy county. The mine was not in operation this day, but the deceased and his partner had gone in to get coal loose for the next day's work. He had taken the coal down on the left side of the roadway for a distance of ten feet along the face of the room; several breaks were in the roof and came together at this point. It is supposed that the deceased was in the act of putting in a prop to the roof where the two breaks met, which was the light end of the rock, when, without any warning, a large piece of rock, 9 ft. 6 in. x 3 ft. 2 in., fell on him, completely covering him; his partner then went some distance and secured help to remove the rock, but it was found that he was dead. Had the prop been put in five feet from the point towards the road, the rock could not have fallen. He left a widow and five children in the old country.

The following tables present the fatal and non-fatal accidents:

*Fatal Casualties in about Coal Mines in the First District of Illinois for the year ending July 1, 1896.*

Date.	Name.	Age.	Occupation.	Residence—Town	Name of Mine.	Married.	Widow.	Children.	Single.	Persons dependent.	Cause of Accident.
1895.											
July	2 Patrick Greening	49	Miner.	Coal City.	Big Four No. 2.	1	1	4	1	5	Killed by falling coal-rock.
"	16 Domingo Ariano.	24	Engineer.	"	Star Coal Co. No. 1.	1	1	4	1	5	running belt.
October	13 Jas. Sumerville ✓	35	Miner.	LaSalle.	Wilmi. Star Mining Co.	1	1	5	1	1	ascending cage.
November	22 Michael Szaych ✓	65	Miner.	Streator.	Rockwell.	1	1	9	1	4	falling rock.
"	5 Chas. Cadman.	50	"	LaSalle.	Price & Jones.	1	1	1	1	2	"
"	7 John Kazoid ✓	27	"	LaSalle.	Union Mine.	1	1	1	1	4	"
"	11 Mathew Svoda ✓	15	"	Kangley.	Kangley No. 2.	1	1	4	1	5	"
"	21 Jas. Carrello	15	"	Coal City.	Big Four No. 2.	1	1	3	1	4	"
December	19 Martin Spangell	38	Cager.	Rutland.	Rutland No. 2.	1	1	2	1	3	descending cage.
"	28 John Larreck.	30	Miner.	Peru.	Cahill's.	1	1	1	1	2	falling rock.
"	30 John W. Cave.	22	"	Streator.	C. W. & V. Co. No. 2.	1	1	1	1	1	flying coal from shot.
1896.											
February	25 Michael Murphy.	34	"	Brazeville.	Brazeville No. 1.	1	1	5	1	6	falling rock.
March	3 Mark Noon.	40	"	Streator.	C. W. & V. Co. No. 1.	1	1	5	1	6	"
April	13 Thos. Riley.	27	"	Braidwood.	" R. shaft.	1	1	5	1	6	"
"	4 Chas. Hoxe.	22	"	"	" R. shaft.	1	1	5	1	6	"
"	3 Geo. Hachrik.	53	"	Streator.	Pekin shaft.	1	1	8	1	1	"
"	18 Peter Rossetto.	36	"	Diamond.	Diamond No. 4.	1	1	5	1	6	"
"	23 Andrew Wargo.	58	"	Streator.	Barrackman.	1	1	2	1	1	"

*Recapitulation of Fatal Accidents—First District—July 1, 1896.*

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Braceville.....	1	Cager.....	1	Ascending cage.....	1	Barrackman's.....	1
Braidwood.....	2	Engineer.....	1	Caught by belt.....	1	Big 4, Wilmington.....	2
Coal City.....	4	Miner.....	16	Descending cage.....	1	Braceville.....	1
Diamond.....	1			Falling coal.....	2	C. W. & V. Coal Co.....	4
Kangley.....	1			Falling rock.....	12	E. Hakes.....	1
LaSalle.....	2			By coal from shot.....	1	James Cahill.....	1
Peru.....	1					Wil. Min. & Man'f'g Co.....	1
Rutland.....	1					Wil. Star Coal Co.....	1
Streator.....	5					LaSalle C. C. C. Co.....	2
						Prairie Creek Coal Co.....	1
						Price & Jones.....	1
						Star Coal Co.....	2
Total.....	18		18		18		18

*Non-Fatal Casualties in and about Coal Mines in the First District of Illinois, for the year ending July 1, 1896.*

Date.	Name.	Age.	Occupation.	Residence—Town	Name of Mine.	Married.	Children.	No persons dependent.	Character of Injury and Cause of Accident.	Time lost—days.
1895.										
July	11 Chas. Huber.....	15	Miner	Diamond.	Diamond.	1	1	1	Eye injured by falling rock.....	49
"	13 John Timmon.....	28	Driver	LaSalle.	Rockwell.	1	1	2	Ankle bruised between pit cars.....	78
"	18 Dom. Brawer.....	35	Miner	Diamond.	Diamond.	1	1	1	Back injured, falling coal.....	28
"	29 Peter Rynn.....	45	Miner	Strevor.	Yynn & Roberts	1	3	4	Leg fractured, falling rock.....	125
August	3 Alex Kilzyink.....	18	Trapper.	Pera or	Union	1	1	1	Finger broken, nuncoupling cars.....	21
"	8 Amos Lazier.....	34	Miner	Diamond.	Diamond.	1	3	4	Finger bruised, falling coal.....	28
"	8 Frank Emmeth.....	40	"	Gardner	Gardner No. 1	1	1	1	Eye injured, falling rock.....	25
"	9 Wm. Hislop.....	32	"	Streator	Streator	1	1	1	Finger bruised, falling pit cars.....	28
"	12 Chris Kumpf.....	30	"	Braidwood.	Diamond.	1	4	5	Arm and hip bruised, falling coal.....	30
"	13 Joe Jackson.....	33	"	Coal City	Big 4	1	1	1	Back injured, falling rock.....	28
"	16 Thos. Murphy.....	24	"	Braidwood.	Q shaft	1	4	5	Back injured, falling rock.....	42
"	17 Thos. Allen.....	35	"	"	P shaft	1	6	7	Hand bruised, falling coal.....	21
"	20 Henry Jlewer.....	49	"	Pera	U ion	1	7	8	Arm bruised, falling coal.....	8
"	20 Wm. Pryde.....	45	"	Oglesby.	Oglesby.	1	1	1	Leg bruised, falling coal.....	18
"	21 Wm. McDermott.....	26	Road man.	Carbon Hill.	No. 1 shaft.	1	2	3	Leg bruised, falling rock.....	42
"	22 Fred Smith.....	32	Miner	Oglesby.	Oglesby.	1	1	1	Eye injured, piece of steel of wedge	15
"	25 Chris Baidan.....	26	"	Clark City	Clark City	1	1	1	Leg broken, falling rock.....	60
"	29 Wm. Harrison.....	45	"	Oglesby.	Oglesby.	1	2	3	Hand bruised, falling rock.....	18
"	30 Wm. Coats.....	40	"	"	Oglesby.	1	7	8	Ribs broken, falling prop.....	14
September	4 Thos. Orwn.....	18	Driver.	LaSalle.	Rockwell	1	1	1	Leg broken, car jumped track.....	36
"	5 Thos. McFarlane.....	18	"	Braidwood.	Q shaft	1	1	1	Back injured, lifting pit car.....	7
"	9 John Shims.....	25	Miner	Streator.	No. 2 sh ft (CW&VCo)	1	1	1	Hands and face burned, powder exp.	22
"	9 John Harchardie.....	19	"	"	"	1	1	1	"	14
"	14 Joe Falletto.....	36	Blacksmith.	Braidwood.	P shaft.	1	2	3	Knee injured, kicked by mule.....	28
"	16 Joe Schurt.....	30	Road man.	LaSalle.	Rockwell	1	1	1	Back injured by pit car.....	50
"	17 Jas. McCovie.....	23	Miner	Braidwood.	Q shaft.	1	1	1	Body bruised, falling coal.....	14
"	17 Salomon Repenze.....	30	"	Pera	Union	1	1	1	Leg broken.	40
"	17 Jas. Lilly.....	40	"	Gardner	Gardner	1	4	5	Face burned, gas-explosion.....	30
"	21 Andrew McNulty.....	50	Coal picker.	Braidwood.	P shaft.	1	7	8	Side injured, lifting pit car, result	182
"	25 Joe Berbuis.....	36	Miner	Diamond.	Diamond.	1	1	1	Hernia.....	70
"	27 John B. Morrison.....	35	"	Braidwood.	P shaft.	1	1	1	Hand bruised, falling rock.....	15
"	28 Edw. Ritat.....	32	Road man.	LaSalle.	Rockwell	1	2	3	Leg bruised.	21
October	31 John Neary.....	45	"	Carbon Hill.	LaSalle	1	5	6	Part of finger, pit-car wheel.....	28
"	1 P. Clytrains.....	22	Miner	"	No. 3 shaft.	1	1	1	Back injured, falling rock.....	35
"	2 L. Verderman.....	26	"	Coal City	Big 4	1	1	1	Foot bruised.	14
"	3 Peter Sabina.....	28	"	"	"	1	1	1	falling coal.....	42
"	5 Austin Richey.....	24	"	Spring Hill	Spring Hill	1	1	1	Arm broken, falling rock.....	9
									Head and face burned, gas explosion	9

October	5 Paul Jenatta.....	25	..	Spring Hill.....	Spring Hill.....	1	1	Head and face burned, gas explosion	8
..	5 H. McKenzie.....	30	..	Braidwood.....	P shaft.....	1	1	2 Knee injured, falling coal	7
..	8 V. Hassel.....	28	..	Carbon Hill.....	No. 3 shaft.....	1	3	4 Back injured, falling rock	21
..	9 Conrad Perku.....	34	..	Braidwood.....	Q shaft.....	1	2	3 Sprained ankle, ..	63
..	10 Alex Davidson.....	32	..	..	..	1	2	4 Leg bruised, ..	182
..	10 Dan Hutchison.....	30	..	Diamond.....	Diamond.....	1	2	3 Toe broken, ..	15
..	10 Louis Coners.....	29	..	Braidwood.....	P shaft.....	1	2	Knee injured, falling coal.....	28
..	12 Frank Haupa.....	29	..	Oglesby.....	Oglesby.....	1	1	Foot.....	7
..	14 Joseph Evans.....	18	..	Diamond.....	Diamond.....	1	3	Leg bruised between pit cars.....	49
..	14 Jas. Doyle.....	19	Driver	Oglesby.....	Oglesby.....	1	1	4 Back injured, falling coal.....	98
..	14 Carl B. gen.....	50	M. ner	Diamond.....	Diamond.....	1	3	Leg bruised, falling rock.....	35
..	14 John Cavalla.....	31	..	Braidwood.....	Q shaft.....	1	1	Hand bruised, falling rock.....	39
..	18 Archie Allen.....	22	..	Carbon Hill.....	No. 1 shaft.....	1	1	Hand bruised, falling rock.....	25
..	18 Thos. Goldsmith.....	25	Driver	Braidwood.....	Q shaft.....	1	1	Hand bruised, falling rock.....	14
..	20 Joe Cousins.....	25	..	..	..	1	1	Hand bruised, falling rock.....	15
..	21 John Vallon.....	22	..	Oglesby.....	Oglesby.....	1	1	Shoulder bruised, falling rock.....	28
..	22 Duncan McDonald.....	22	..	Suffernville.....	Big 4.....	1	1	Hip and leg bruised between pit cars.....	15
..	23 Henry Brown.....	21	..	Diamond.....	Diamond.....	1	1	5 Foot bruised, falling coal.....	30
..	23 Steve Powell.....	32	..	Braidwood.....	No. 1 shaft.....	1	2	3 Body bruised, falling rock.....	35
..	23 Andr. Rossetta.....	82	..	Diamond.....	No. 1 shaft.....	1	6	Leg broken, falling coal.....	22
..	25 Dom Joshua.....	30	..	Carbon Hill.....	Spring Hill.....	1	1	1 Back injured, falling rock.....	22
..	30 Michael Radigan.....	53	..	Streator.....	No. 2 shaft.....	1	3	4 Back injured, falling coal.....	21
..	5 Columbus Dominick.....	34	..	Carbon Hill.....	Spring Hill.....	1	1	Arms and face burned, gas explosion.....	25
..	6 Edw. Lunnah.....	30	..	Streator.....	Union.....	1	1	3 Back broken, falling rock, not recover'd.....	22
..	7 John Kazoid.....	33	..	Braidwood.....	C. W. & V. Co. Q shaft.....	1	2	3 Head bruised, falling rock.....	208
..	7 John Kratofil.....	30	..	Kangley.....	No. 2 shaft.....	1	3	4 Foot broken, falling coal.....	14
..	8 Paul Chibben.....	61	..	..	..	1	1	1 Toe crushed, falling rock.....	55
..	8 Dom Bilbel.....	55	..	Streator.....	No. 1 shaft (CW & V Co).....	1	1	1 Ribs broken, falling rock.....	25
..	9 Lockwood Wray.....	35	..	..	No. 3 shaft (CW & V Co).....	1	2	3 Back and hips injured, falling in shaft.....	60
..	10 Joseph Woods.....	37	Top man	Carbon Hill.....	No. 2 shaft.....	1	1	3 Back and hips injured, falling in shaft.....	40
..	12 John Rosso.....	30	Miner	LaSalle.....	LaSalle.....	1	5	6 Collar bone caught between p t cars.....	85
..	12 J. Hestrah.....	41	..	Braidwood.....	Q shaft.....	1	1	Hand bruised, falling rock.....	10
..	16 Frank Swartz.....	26	..	..	P shaft.....	1	3	4 Shoulder dislocated, falling rock.....	7
..	16 Wm. Managhon.....	36	..	..	..	1	1	..	14
..	16 Joe McCovie.....	30	..	LaSalle.....	LaSalle.....	1	1	Knee hurt—kicked by mule.....	49
..	16 Pat Collin.....	29	Driver	Diamond.....	Diamond No. 4.....	1	1	Back injured by falling rock.....	51
..	16 Marco Stedoni.....	30	Miner	Braidwood.....	P shaft.....	1	1	Broken toe, falling coal.....	70
..	19 Peter Chinnotts.....	27	..	..	Q shaft.....	1	1	Eye injured by piece of coal.....	28
..	20 J. Tussel.....	26	..	..	P shaft.....	1	1	Bruised and sprained knee, rock.....	7
..	29 Anton Trafucca.....	38	..	..	Diamond No. 4.....	1	1	4 Body injured by falling stone.....	28
..	29 Anton Mossatto.....	45	..	..	P shaft.....	1	2	2 Knee joint injured by falling coal.....	100
..	30 Anton Francesco.....	40	..	..	Q shaft.....	1	1	6 Shoulder sprained by falling stone.....	14
..	1 Thos. Bredlick.....	45	..	..	Maltby.....	1	5	Finger bruised by pit cars.....	7
..	2 Wm. Poppleton.....	21	Driver	..	P shaft.....	1	1	Sprained knee joint, jumped on car.....	7
..	3 M. Murphoy.....	22	..	Diamond.....	No. 1 shaft.....	1	1	Finger hurt, falling coal.....	35
..	5 John Allica.....	31	Miner	Streator.....	No. 2 C. W. & V.....	1	1	Burnt by gas.....	56
..	5 Mike Elias.....	21	..	Kangley.....	No. 2 C. W. & V.....	1	1	2 Foot hurt by fall of coal.....	30
..	5 Louis Drunko.....	24	..	Braidwood.....	Q shaft.....	1	2	3 Leg bruised by falling rock.....	14
..	6 M. Bert.....	28	..	Carbon Hill.....	No. 2 shaft.....	1	1	Leg broke by pit car.....	30
..	7 William Keer.....	22	Driver	Streator.....	Spring Hill No. 1.....	1	3	4 Arm hurt between coal and rib.....	21
..	12 John Nelson.....	35	Miner	..	..	1	1	..	30

## November

## December

# Non-Fatal Casualties First District - 1896 (Continued.)

Date.	Name.	Age.	Occupation.	Residence—Town.	Name of Mine.	Married.	Single.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost—Days.
December	13 Vincent Henea.....	35	Miner.....	Suffernville.....	Big 4 No. 2	1	3	4	Collar bone broken falling rock.....	35
"	13 Mat Morrell.....	55	"	Sreator.....	C. W. & V., No. 1	1	5	6	Ankle bruised falling coal.....	15
"	13 Anton Chemack.....	43	"	Braidwood.....	P shaft.....	1	5	6	Lacerated finger falling coal.....	62
"	16 Chas. Dillon.....	19	"	Clarke City.....	B shaft.....	1	1	1	Bruised shoulder falling coal.....	12
"	18 Peter Pacadi.....	15	"	Braidwood.....	Q shaft.....	1	1	1	Collar bone broken falling coal.....	17
"	20 Gus Chaillai.....	22	"	LaSalle.....	Q shaft.....	1	1	1	Sprained wrist falling coal.....	7
"	21 J. T. Roe.....	29	"	Braidwood.....	Q shaft.....	1	1	1	Hip joint injured lifting pit car.....	7
"	23 Fred Keating.....	45	Road man.....	LaSalle.....	F shaft.....	1	6	7	Breast crushed betw'n mule and road.....	24
"	23 Joe Dumbroski.....	23	Miner.....	Braidwood.....	B shaft.....	1	1	1	Foot injured by falling prop.....	10
"	24 Anton Suetti.....	45	"	Clarke City.....	P shaft.....	1	1	1	Foot injured by falling stone.....	10
"	26 M. Sullivan.....	23	"	Braidwood.....	No. 1, C. W. & V.	1	1	1	Bruised thumb by falling rock.....	21
"	26 Hector McAllister.....	38	Cager.....	Sreator.....	"	1	3	4	Head & body by ascending cage.....	95
"	26 John McAllister.....	38	"	"	"	1	4	5	Back injured by fall of coal.....	14
"	26 Mike Gotch.....	48	Miner.....	"	"	1	4	5	Foot injured by dropping piece coal.....	14
"	26 Andro Novetney.....	36	"	"	"	1	5	6	Back injured by dropping piece coal.....	6
"	26 Samuel Lumas.....	50	"	Pern.....	Cahills.....	1	1	1	Hurt on back, fall of rock.....	10
"	31 T. Westmoreland.....	39	"	Braidwood.....	Q shaft.....	1	1	1	Hand injured by falling prop.....	21
"	31 Mike Gotsfiski.....	28	"	Braidwood.....	No. 4 shaft.....	1	2	3	Hand injured by falling prop.....	21
"									Leg broken rock rolled off side.....	56
January	1 Joe Barto.....	24	"	Braidwood.....	P shaft.....	1	1	1	Eye injured by fire.....	21
"	3 Joe Zine.....	34	"	Heenanville.....	No. 1, C. W. & V.	1	3	4	Hand smashed, falling coal.....	10
"	3 Andrew Cutz.....	45	"	Pern.....	Union.....	1	1	1	Bruised by fall of coal.....	10
"	6 Frank Grossman.....	34	"	Kungley.....	No. 1, C. W. & V.	1	1	1	Broken leg by fall of coal.....	35
"	7 Harry Wilson.....	25	"	Braidwood.....	Diamond No. 4.....	1	1	1	Body injured—stone.....	5
"	8 Henry Bazore.....	22	"	Sreator.....	No. 1, C. W. & V.	1	1	1	Back injured by falling coal.....	35
"	8 B. Chimotto.....	33	"	"	Q shaft.....	1	2	3	Fell and stuck pick in arm.....	7
"	9 Louis Evans.....	25	Driver.....	Braidwood.....	Spring Hill No. 1.....	1	1	1	Back hurt, caught between rib and car.....	7
"	9 Ben Price.....	55	Coal picker.....	Pern.....	Union.....	1	1	1	Bruised toe by pit car.....	7
"	10 John Karkoski.....	26	Driver.....	Pontiac.....	R. Evans mine.....	1	1	1	Collar bone broken, caught by car & roof.....	40
"	12 Wm. Robbins.....	22	"	West Sreator.....	Barrackman's mine.....	1	7	8	Leg broken by fall of rock.....	56
"	13 Jas. Horton.....	53	Miner.....	Braidwood.....	Q shaft.....	1	1	2	Thumb crushed by falling rock.....	140
"	15 Arthur Cope.....	27	"	LaSalle.....	Pern. Cahills.....	1	1	1	Leg broken by falling coal.....	120
"	15 Thos. Roach.....	40	"	Braidwood.....	Q shaft.....	1	1	1	Back injured by pit car.....	182
"	17 Chas. Epps.....	28	Fireman.....	Braidwood.....	No. 4 shaft.....	1	1	1	Leg broken, hand bruised, fall of rock.....	156
"	17 Geo. Jacobs.....	25	Miner.....	Braidwood.....	Q shaft.....	1	2	3	Arm bruised, falling rock.....	14
"	20 Wm. S. Young.....	32	"	Braidwood.....	Q shaft.....	1	1	1	Arm broken, falling rock.....	182
"	26 D. Hutchison.....	31	Timberman.....	Carbon Hill.....	No. 3 shaft.....	1	1	1	Leg broken, falling rock.....	50
"	28 R. Patterson.....	44	Miner.....	LaSalle.....	Rockwell shaft.....	1	1	1	Small bone of leg broken, fall of coal.....	28
"	28 John Samon.....	53	"	Sreator.....	No. 1 shaft.....	1	4	5	Face & hands bruised, powder explosion.....	8
"	29 John Maclose.....	31	"	"	"	1	1	1	"	"

1896.



Month	Name	Occupation	Location	Cause	Injury	Result
January	Henry Donnelly	Miner	Braidwood	No. 3 shaft	Back bruised by falling rock	14
	Paul Patoczni	"	Carbon Hill	Oglesby	Side injured by falling coal	7
February	F. Alex. Harrison	"	Oglesby	Union	Bruised leg by falling coal	14
	Wm. Harrison	Driver	LaSalle	"	Finger crushed by pit car	31
"	Joe Hart	"	Braidwood	Q shaft	Eye burned	8
	John C. Brooks	Miner	Braceville	No. 4 shaft	Back injured seriously, falling rock	21
"	Andrew Hoyack	Water bailer	Streator	No. 2 shaft	Foot injured, water box jumping track	144
	John Socash	Miner	Kangley	No. 1 shaft	Foot injured, stepping on needle	7
"	Joe J. Rogers	Freeman	Braidwood	R shaft	Back strained by lifting car	16
	John Langley	Teamster	Streator	Aches	Two fingers crushed, coupling cars	7
"	Aug. Wilkinson	Miner	Oglesby	No. 1 shaft	Back and leg injured, fall of rock	30
	John Walcox	Driver	Diamond	Oglesby	Foot cut by fall of coal	17
"	James Kocer	Miner	Braidwood	No. 4 shaft	Spine injured by pit cars	1
	John Rewseop	"	"	Q shaft	Face bruised, hip cut, falling coal	7
"	Joe Kennable	"	"	P shaft	Fingers lacerated, falling coal	35
	Angelo Brazo	Miner	Oglesby	Oglesby	Shoulder bruised by fall of rock	43
"	William Neais	Driver	Braidwood	P shaft	Strained wrist and hand, rock	70
	Joseph Perry	Miner	Carbon Hill	No. 3 mine	Back injured by fall of rock in room	30
"	Louis Kaiser	Blacksmith	Braidwood	Q shaft	Lacerated finger, hit with hammer	14
	John Choma	Miner	"	P shaft	Shoulder bruised, falling rock	7
March	Frank Tusssel	Driver	Oglesby	Oglesby shaft	Hand injured	77
	Henry Obble	Miner	Braidwood	P shaft	Back bruised, falling rock	19
"	Frank Giovanni	"	"	"	Leg bruised, falling rock	21
	E. Serena	"	Coal City	Big Four shaft	Hit and side bruised, falling rock	14
"	Anton Bubely	"	Pontine	R Evans	Face and hand burned, gas explosion	29
	Frank Stevenson	"	Braidwood	P shaft	Hand bruised, falling rock	7
"	Thos. Menetto	"	Carbury	Walton Bros.	Foot crushed between pit cars	16
	Joe Daly	"	Braidwood	Diamond No. 4	Back injured, falling rock	35
"	Martin Kata	"	LaSalle	Peru shaft	"	40
	Con. Hurley	"	Spring Hill	Spring Hill	Leg broke, falling rock in room	45
"	Joe Williamson	"	Braidwood	Diamond No. 4	Knee injured, falling rock	36
	Joe Pomotto	"	"	P shaft	Back bruised	14
"	Robt. Hanop	Section man	Braceville	Railroad	Toes bruised, falling rail	7
	Adam Cullick	Miner	Braidwood	No. 4 mine	Leg broken, falling coal	96
"	Frank Swartz	"	Carbon Hill	P mine	Leg bruised, falling rock	10
	Julius Ferris	"	Coal City	Big 4	Knee dislocated, pushing pit car and fell	70
"	Albert Toherman	Coal picker	Braidwood	P "	Breast bruised, pushing pit car and fell	14
	Gilbert Simpson	Miner	Oglesby	Oglesby mine	Ribs bruised, falling coal	35
"	Dom Perona	Driver	Braidwood	P mine	Thumb broken	90
	Jas. Pride	"	"	"	Fingers bruised between pit cars	35
"	H. Harper	Miner	"	"	Hit on the eye by wedge	7
	Joe Bella	Driver	"	"	Hand crushed between side and pit car	85
April	Thos. McFarlane	"	LaSalle	Malby No. 1	Leg broken on dirt dump car	50
	William Malby	Driver	Braidwood	No. 1 mine	Foot bruised by broken coupling ears	21
"	M. Blanche	"	"	P mine	Hands injured, coal fall down shaft	50
	P. Sammon	Cager	Peru	Union mine	Back strained lifting coal on car	15
"	H. McKenzie	"	Marselles	Marselles	Arm and shoulder bruised, falling rock	14
	Wm. Gaulty	"	"	"	Leg and back injured, falling rock	30
"	M. Smith	"	"	"	"	30

## Non-Fatal Casualties—First District—1896—Continued.

D te.	Name.	Age.	Occupation.	Residence—Town.	Name of Mine.	Married.	Single.	Chil. ren.	No. persons dependent	Character of Injury and Cause of Accident.	Time lost— Days.
April	16 Wm. Connell.	55	Coal Picker.	Carbon Hill.	No. 2 mine.	1	1	3	4	Foot injured by mule.	21
"	17 E. Endert.	54	Miner.	Braidwood.	No. 3 mine.	1	1	3	4	Shoulder broken, fall g rock in room.	28
"	17 Adam Gr ever.	40	Section man.	Braidwood.	Railroad.	1	1	3	4	End of finger cut off, falling rail.	42
"	17 Jas. Tomasek.	38	Miner.	Diamond.	R shaft.	1	1	1	1	Eye injured by piece of coal.	7
"	21 Mike Gattalia.	28	"	Diamond.	Diamond No. 4	1	1	1	1	Foot injured by falling rock.	28
"	21 Peter Guise.	28	"	Braidwood.	P shaft.	1	1	1	1	Collar bone dislocated, falling rock.	63
"	21 Frank Coleman.	17	Trapper.	LaSalle.	No. 1 mine.	1	1	1	1	Toes crushed by pit-car.	14
"	23 John Hummelick.	43	Miner.	Kangley.	Spring Hill No. 1.	1	1	4	5	Hip injured by falling coal.	21
"	23 Anton Defandant.	39	"	Braidwood.	P shaft.	1	1	3	3	Back strained by lifting coal on ear.	7
"	30 Jas. Failey.	43	"	LaSalle.	No. 1 shaft.	1	1	2	3	Finger bruised by prop.	21
May	10 T. Brother.	38	"	LaSalle.	No. 1 shaft.	1	1	1	1	Leg bruised by falling coal.	30
"	11 W. Hutton.	23	"	Kangley.	Spring Hill No. 1.	1	1	1	2	Hand injured by falling coal.	21
"	13 Ford Dichart.	39	"	Braceville.	No. 4 shaft.	1	1	1	2	Small bone of foot broken, fall g rock.	14
"	15 Frank Bertuzy.	53	"	LaSalle.	No. 1 "	1	1	3	4	Arm bruised, falling coal.	43
"	16 Joe Pallorn.	40	"	Braceville.	No. 4 "	1	1	1	1	Back seriously hurt and two ribs broken, falling rock.	21
"	20 Samuel Radford.	45	"	"	No. 4 "	1	1	1	1	Hip injured by falling rock.	40
"	21 David Swanborough.	45	"	Kangley.	No. 2 "	1	1	1	1	Hip injured by falling rock.	24
"	22 George Lusoft.	36	"	LaSalle.	No. 2 "	1	1	1	1	Face cut by falling rock.	21
"	23 Axel Norman.	21	Driver.	Kangley.	Spring Hill shaft.	1	1	1	2	Back injured, caught betw'n pit-cars.	7
"	24 Joseph Kemmich.	48	Miner.	Braidwood.	P shaft.	1	1	3	4	Breast bruised, caught betw'n ear & rib.	35
June	1 M. Stelin.	27	"	Braidwood.	Acme shaft.	1	1	1	2	Leg bruised by falling rock.	14
"	5 Louis Evans.	27	Driver.	Streator.	P shaft.	1	1	5	6	Shoulder injured by props in pit-car.	15
"	8 Anton Bergia.	4	Miner.	Braidwood.	P shaft.	1	1	5	6	Body bruised by falling rock.	14
"	8 M. Motep.	39	"	Streator.	Howe & Co. shaft.	1	1	2	2	Fell and injured hand with pick.	21
"	10 Jas. Smedley.	46	"	Streator.	No. 1 shaft.	1	1	2	2	Collar bone broken, caught between pit-cars.	*
"	16 Benj. Lane.	45	"	LaSalle.	No. 1 shaft.	1	1	1	1	Leg injured by falling roof.	7
"	17 Joseph Bregiuski.	24	"	Kangley.	Rockwell shaft.	1	1	3	4	Arm and ribs broken, fall of rock.	*
"	20 Vucio Kanstorie.	24	"	Streator.	Other rock.	1	1	8	6	Face and body injured, premature blast.	21
"	22 Emil Tvola.	41	"	"	Eagle Clay Works.	1	1	2	3	Back and breast injured, falling rock.	*
"	24 Edw. Bryant.	34	"	"	Spring Hill.	1	1	1	1	Head injured, falling rock.	10
"	25 Jas. Lawrence.	35	Road man.	LaSalle.	C. W. & V. No. 2.	1	1	1	1	Knee dislocated by pit-cars.	*
"	26 Louis Jones.	35	Miner.	LaSalle.	M. & H. Zinc Co.	1	1	1	2	Face and arms bruised, gas explos n	*
"	29 Isaac Lee.	26	"	Carbon Hill.	No. 3 mine.	1	1	1	2	Back and hips bruised, falling rock.	*
"	29 A. Albo.	27	"	"	"	1	1	1	1	Face and hands burned, gas explos n	10

\* Still idle.

*Recapitulation of Non-Fatal Accidents—First District—July 1, 1896.*

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Braceville ....	7	Blacksmith...	2	Ascending cages...	2	Acme Coal Co .....	2
Braidwood....	77	Cagers .....	3	Burned by powder.	3	Barrackman Coal Co.....	1
Carbon Hill...	15	Coal pickers...	4	By needle .....	1	Braceville Coal Co.....	6
Clark City....	3	Drivers.....	22	C'1 falling d'n sh'ft.	1	Big 4 Wilmington Coa Co	6
Coal City.....	4	Firemen .....	2	Crushed by mules.	2	C. W. & V. Coal Co .....	91
Diamond .....	16	Miners .....	166	Falling coal .....	58	Eagle Clay Works Mine...	1
Fairbury .....	1	Roadmen .....	6	Falling rails .....	2	Gardner & Wilma'n C. C.	5
Gardner.....	2	Sectionmen ..	2	Falling rock .....	85	James Cahills.....	3
Heenanville...	1	Teamster.....	1	Falling props .....	3	LaSalle County C. C. Co.	25
Kangley.....	11	Timbermen ..	2	Fal ing down shaft	1	Marseilles L. & W. P. Co.	1
LaSalle .....	21	Top man.....	1	Flame of amp.....	2	M. & H. Zinc Co .....	1
Marseilles ..	1	Trappers .....	2	Gas explosion.....	9	Oglesby Coal Co .....	11
Oglesby.....	11	Water-bailer.	1	Hammer.....	1	Prairie Creek Coal Co...	1
Peru .....	8	Weighman ...	1	Hurt by picks.....	2	Richard Evans & Sons...	2
Pontiac .....	2			Jumping f'm land'g	1	Rynn & Roberts .....	1
Spring Hill...	3			Kicked by mules...	2	Star Coal Co.....	35
Streator.....	30			Pit cars.....	35	Walton Bros .....	1
Sufferenville.	2			Premature blast ...	1	William Howe & Co .....	1
				Railroad car.....	1	William Maltby .....	2
				Water box.....	1	Wilm'on Min'g & Mfg. Co	19
				Wedges.....	2		
Totals.....	215		215		215		215

The county tables follow, which, with the district recapitulation completes the report for the First Inspection District for the year ending July 1, 1896.

All of which is respectfully submitted.

JAMES A. KEATING,

*State Inspector of Mines, First District.*

## Grundy County—First District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Chi. Mil. & St. Paul, No. 4...	Braceville....	Braceville....	S	103	3.2	75	Sh.	L. W.	H.
2	W. Star Mining Co., No. 3...	Coal City....	Coal City....		115	3.	7.			
3	No. 5...				128	3.	6.			
4	Star Coal Co., No. 1.....	Carbon Hill...	Streator....		96	3.	20.			
5	No. 2.....				98	3.	45.			
6	No. 3.....				99	3.	30.			
7	C., W., & V. Coal Co., P shift	Braidwood....	Braidwood....		115	3.	29.			
8	R shift				99	3.	1.8			
9	W. Mfg Coal & M. Co., No. 4	Diamond.....	Diamond.....		105	3.	39.			
10	Gard. & Wil. Coal Co., No. 1	Gardner.....	Gardner.....		210	3.	11.			
11	Big 4 Wil. Coal Co., Maria...	Coal City....	Coal City....		90	3.	40.			
12	James Heather.....	Morris.....	Morris.....	L	35	2	.5		R. P.	
13	A. W. Telfer, No. 4.....				66	2.8	.63			
14	Griffith & Wren.....				24	2.6	.75			
15	Alexander Bell, No. 2.....				41	2.6	.28			
16	J. J. Espley.....				60	3.	.66			
17	William Woods.....				70	2.4	1.2			
18	Harry Kay, No. 1.....				80	3.6	.35			
19	No. 2.....				60	3.6	.71			
20	Frank Gilbride.....				80	3.2	.85			
21	Thomas Scott & Sons.....				32	3.3	.26			
22	Joseph D. Maher.....				60	3.	.35			
23	Howe & George.....				40	2.6	.28			
24	George Burt.....				40	2.4	.33			
25	John Telfer.....				25	2.6	.14			
26	George R. Blair, No. 4.....				28	2.7	.21			
27	James Cryer.....				40	3.	.98			
Totals.....							321.78			
Averages.....										

## Kankakee County—First District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Gardner & Wilmington.....	Clark City....	Gardner.....	S	106	4.8	18.2	Sh.	R. P.	B
2	William Treasure.....	Essex.....	Essex.....	L	67	2.8	.30			H
Totals.....							18.50			
Averages.....										

## Grundy County 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.					Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.		Fatal.				Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.	
	Winter.	Summer.	Winter.	Summer.													
1	610	610	30	30	15	S. M.	.90	1	7	340,598	307,553	33,045	\$1 25	255	80.45	30	
2	130	56	7	5	14		.85	1	..	28,595	26,675	1,920	1 12	131	40	78	
3	77	59	7	5	6		.85	..	..	25,499	24,474	1,025	1 12	155	40	66	
4	328	265	6	6	6		.86 <sup>1</sup> / <sub>2</sub>	1	3	78,503	67,904	10,599	1 02	91	40	140	
5	660	500	13	13	13		.85 <sup>3</sup> / <sub>4</sub>	..	4	153,252	135,017	18,235	1 02	138	40	210	
6	360	318	9	9	9		.85	..	9	110,273	94,423	15,850	1 02	140	40	190	
7	380	380	13	13	2		.95	..	43	117,000	111,141	5,859	1 20	193	40	180	
8	116	116	10	10	..		.95	2	3	5,291	5,039	252	1 20	13	45	..	
9	495	395	25	25	35		.92	1	19	157,372	145,162	12,210	1 25	134	50	50	
10	159	113	7	6	6		.88	2	2	45,289	40,539	4,750	1 20	213	50	50	
11	457	345	18	16	9		.92	2	6	164,382	146,936	17,446	1 25	124	60	7	
12	4	2	1	1	..		1.00	..	..	1,200	1,200	..	2 00	150	45	..	
13	11	9	2	2	..		1.00	..	..	2,150	1,450	700	2 00	208	45	..	
14	4	2	1	1	..		1.00	..	..	1,600	1,300	300	2 00	300	75	..	
15	3	1	1	1	..	W.	1.00	..	..	600	500	100	2 00	100	80	..	
16	8	6	1	1	..		1.00	..	..	1,959	1,759	200	1 91	230	75	..	
17	6	2	1	1	..	S. M.	1.00	..	..	2,120	1,870	250	2 15	301	75	..	
18	3	3	1	1	..	W.	1.00	..	..	1,050	1,000	50	2 25	100	70	..	
19	8	6	1	1	..		1.00	..	..	2,100	2,000	100	2 00	200	70	..	
20	8	1	1	1	..		1.00	..	..	2,140	2,020	120	2 25	212	80	..	
21	3	2	1	1	..		1.00	..	..	733	733	..	2 12	150	75	..	
22	7	4	1	1	..		1.00	..	..	900	825	75	2 00	125	60	..	
23	4	2	1	1	..		1.00	..	..	600	600	..	2 00	100	50	..	
24	4	3	1	1	..		1.00	..	..	644	528	116	2 00	217	70	..	
25	3	3	1	1	..	M.	1.00	..	..	300	300	..	2 00	100	70	..	
26	2	2	1	1	..	W.	1.00	..	..	450	421	29	2 25	158	70	..	
27	4	4	2	1	..		1.00	..	..	2,794	2,494	300	2 25	170	70	..	
..	3,858	3,208	163	155	101	..	..	8	96	1,247,394	1,123,863	123,531	..	..	..	1,001	
..	..	..	..	..	..	..	..	..	..	..	..	..	\$1 19	168	..	..	

## Kankakee County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	142	142	20	20	9	S. M.	.61	..	3	71,769	44,063	27,706	\$1 00	117	50	800
2	8	2	2	2	.....		1.00	..	..	626	626	.....	2 00	140	..	.....
..	150	144	22	22	9	.....	..	..	3	72,395	44,689	27,706	.....	.....	.....	800
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1 014	129	50	.....

*LaSalle County—First District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post-office address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	James Cahill.....	Peru.....	Peru.....	B.	350	3.0	15.5	Sh.	L. W.	H.
2	LaSalle C. C. Co.....	LaSalle.....	LaSalle.....	Sh.	392	3.6	26	"	"	"
3	"	Rockwell.....	"	"	375	3.6	16	"	"	"
4	"	Unlon.....	"	B.	390	3.6	24.3	"	"	"
5	"	No. 1.....	"	Sh.	440	3.6	27.3	"	"	"
6	M. & H. Zinc Co.....	LaSalle.....	"	L.	310	4.6	15	"	R. P.	B.
7	Oglesby Coal Co.....	Oglesby.....	Oglesby.....	Sh.	464	3.9	25	"	L. W.	H.
8	Star Coal Co. No. 2.....	Kangley.....	Streator.....	"	86	5.6	43.5	"	R. P.	"
9	"	Spring Hill.....	"	"	135	3.0	12	"	L. W.	"
10	C. W. & V. Coal Co. No. 1.....	Heenanville.....	"	"	96	8.0	21	"	R. P.	"
11	" No. 2.....	Streator.....	"	"	116	6.0	14	"	"	"
12	Chas. Scott.....	Heenanville.....	Kangley.....	L.	75	8.6	0.21	"	"	"
13	William Howe & Co.....	Streator.....	Streator.....	B.	50	5.0	3.29	"	"	"
14	Acme Coal Co.....	"	"	"	110	6.6	13.7	"	"	"
15	J. B. Plumb.....	Eagle C. W'ks.....	"	L.	200	2.10	.08	"	"	"
16	Prairie Creek Coal Co.....	Streator.....	"	Sh.	100	5.6	4.37	"	"	"
17	Baer & Roberts.....	Otter Creek.....	"	L.	65	4.0	.29	"	"	"
18	Price & Jones.....	Streator.....	"	Sh.	32	5.0	1.06	"	"	"
19	Rynn & Roberts.....	"	"	L.	30	4.10	.36	"	"	"
20	Nelson & Westerland.....	"	"	"	35	4.10	.98	"	"	"
21	W. D. Thorne.....	"	"	"	50	4.6	.11	Sl.	"	"
22	Myers & Castetter.....	"	"	"	35	4.0	.29	Dr.	"	"
23	Robert Haswell.....	"	"	"	30	4.6	.02	"	"	"
24	Frank Hirst.....	"	"	"	52	5.0	.18	Sh.	"	"
25	Vipond & Edmunds.....	"	"	"	45	5.0	.05	Sl.	"	"
26	Hudson & Stubbs.....	"	"	"	30	4.6	.57	"	"	"
27	G. W. Galloway & Heinze.....	"	"	"	40	5.6	.22	"	"	"
28	Sawerby Bros.....	"	"	"	40	4.6	.29	Sh.	"	"
29	William Penman.....	"	"	"	44	4.0	.09	"	"	"
30	Benjamin Davis.....	"	"	"	35	4.6	.21	"	"	"
31	R. D. Lyons.....	Riverside.....	"	"	25	4.6	.02	D.	"	"
32	Emerson Hakes.....	Rutland.....	Rutland.....	Sh.	500	2.10	12.4	Sh.	L. W.	"
33	Marseilles L. & W. Co.....	Marseilles.....	Marseilles.....	"	120	2.10	2.7	"	"	"
34	Standard Coal Co.....	Seneca.....	Seneca.....	"	100	2.9	3.18	"	"	"
35	C. J. Smith.....	South Ottawa.....	Ottawa.....	L.	45	2.4	.07	Sl.	R. P.	"
36	Frank Frost.....	"	"	"	90	2.6	.12	D.	"	"
37	F. M. Fishburn.....	"	"	"	70	2.4	.08	"	"	"
38	John Delbridge.....	"	"	"	40	2.2	.18	"	"	"
39	James McCollough.....	"	"	"	40	2.4	.15	"	"	"
Totals.....							284.87			
Averages.....										

## LaSalle County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	Accidents.	PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.						Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.											
1	184	164	14	14	6	S-M.	1.00	1 3	73,000	64,000	9,000	\$1 34	200	80 45	.....
2	274	242	27	27	14	..	1.00	1 4	121,256	103,032	18,224	1 23	190	40	.....
3	228	196	20	20	7	..	1.00	1 6	75,470	63,958	11,512	1 23	155	40	.....
4	348	247	34	34	17	..	1.00	1 8	114,594	97,194	17,400	1 23	162	40	.....
5	369	319	31	31	8	..	1.00	1 7	139,273	118,227	21,046	1 23	170	40	.....
6	72	90	9	9	..	W.	1.00	1 1	56,920	56,920	..	..	195	52	1,920
7	292	228	30	26	21	S-M.	.83	11	119,445	99,538	19,907	1 19	183	60	10
8	535	412	15	15	16	..	.71	1 5	201,970	141,559	60,411	98 1/2	211	40	2,500
9	170	135	7	7	4	..	.88 1/2	13	48,406	42,819	5,587	1 01	218	40	145
10	348	295	20	18	4	..	.75	1 12	169,689	135,749	33,940	1 00	137	35	4,243
11	390	353	12	10	5	..	.75	1 5	84,858	67,885	16,973	1 00	114	35	1,290
12	6	1	1	1	..	W.	1.00	..	1,833	1,833	..	1 25	150	40	30
13	28	21	3	3	..	S-M.	1.00	1	13,901	10,001	3,900	1 20	150	40	110
14	145	141	10	10	..	M.	.68 1/2	2	75,202	51,526	23,676	1 00	200	40	520
15	4	4	1	1	..	S-M.	1.00	1	200	200	..	..	30	40	20
16	126	98	12	12	1	M.	.90	1 1	20,329	18,329	2,000	1 05	149	40	270
17	3	3	1	1	..	..	1.00	..	1,000	525	475	1 25	80	40	12
18	25	5	4	2	..	S-M.	1.00	1	6,760	5,032	1,728	1 30	131	40	55
19	8	2	1	1	..	..	1.00	1	1,500	1,200	300	1 45	170	35	26
20	7	4	1	1	..	W.	1.00	..	4,000	2,500	1,500	1 40	225	40	8
21	4	1	1	1	..	..	1.00	..	437	370	67	1 50	150	40	4
22	4	2	..	..	..	..	1.00	..	993	933	60	1 40	150	40	.....
23	1	1	..	..	..	..	1.00	..	100	100	..	1 00	70	35	.....
24	8	2	1	1	..	..	1.00	..	770	700	70	1 35	175	40	2
25	28	12	..	..	..	..	1.00	..	250	250	..	1 40	80	40	5
26	6	3	1	1	..	..	1.00	..	2,162	1,962	200	1 30	275	50	16
27	4	..	..	..	..	..	1.00	..	1,050	800	250	1 45	150	50	5
28	3	3	1	1	..	..	1.00	..	1,120	745	375	1 25	245	40	28
29	2	2	..	..	..	..	1.00	..	330	330	..	1 00	150	40	.....
30	4	2	1	1	..	..	1.00	..	800	542	258	1 25	246	40	.....
31	3	..	..	..	..	..	1.00	..	100	80	20	1 10	80	40	4
32	102	77	12	10	2	M.	.82	1	47,500	39,000	8,500	1 25	280	70	10
33	30	30	3	3	3	S-M.	1.00	1	10,500	10,500	..	1 00	300	50	25
34	48	25	7	4	1	..	.86 1/4	..	12,162	11,100	1,062	1 46	188	55	10
35	6	..	..	..	..	W.	1.00	..	150	150	..	1 75	100	60	4
36	2	..	..	..	..	..	1.00	..	255	255	..	1 25	160	50	3
37	1	..	..	..	..	..	1.00	..	154	154	..	1 25	100	60	3
38	3	..	..	..	..	..	1.00	..	350	350	..	1 25	100	60	6
39	2	..	..	..	..	..	1.00	..	296	246	50	1 30	125	55	2
..	3,797	3,112	280	265	109	..	..	9 82	1,409,085	1,150,594	258,491	.....	.....	.....	11,276
..	..	..	..	..	..	..	..	..	..	..	..	\$1 13	176	..	..

*Livingston County—First District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Richard Evans & Sons.....	Pontiac.....	Pontiac.....	B.	464 2.8	8.45	Sh.	L. W.	H.	
2	John T. Henry.....			L.	200 5.0	.61	..	R. P.	..	..
3	Walton Bros.....	Fairbury.....	Fairbury.....	Sh.	180 5.0	7.7	..	..	..	..
4	Co-operative Coal Co.....			B.	165 5.0	1.8	..	..	..	..
5	Barrackman Coal Co.....	Coalville.....	Streator.....	Sh.	70 4.6	11.6	..	..	..	..
6	Streator Clay Mfg. Co.....	Newton Tp.....		L.	75 4.6	1.63	..	..	..	..
7	Joseph Kilburn.....	..	..	..	27 4.6	.18	..	..	..	..
8	John Marshall.....	..	..	Sh.	63 4.8	1.46	..	..	..	..
9	C., W. & V. Coal Co. No. 3..	..	..	..	85 5.6	16.64	..	..	..	..
10	Alex Bergreen & Son.....	Pleasant Hill..	..	B.	52 4.0	.66	..	..	..	..
11	Harry Smoek.....	..	..	L.	50 4.0	.18	..	..	..	..
12	William Burrell.....	So. Streator..	..	..	60 4.10	.23	..	..	..	..
13	J. Massy & Son.....	..	..	..	60 4.6	.15	D.	..	..	..
14	Thos. Edwards.....	Coalville.....	..	..	65 4.0	.22	Sh.	..	..	..
15	Silvester Kimes.....	..	..	..	42 4.0	.45	..	..	..	..
Totals (15 mines).....							51.96			
Averages.....										

*Will County—First District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	C., W. & V. Coal Co.....	Braidwood....	Braidwood....	Sh.	87 3.0	17	Sh.	L. W.	H.	
2	Co-operative Coal Co.....	..	..	L.	55 2.10	1.18	..	..	..	..
3	William Maltby .....	..	..	B.	60 3.0	3.44	..	..	..	..
Totals (3 mines).....							21.62			
Averages.....										



*Livingston County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	79	57	7	6	5	W.	63½	1	2	30,455	22,386	8,075	\$1 45	240	\$0 50	20
2	9	6	3	3	...	M.	100	...	...	2,600	1,450	1,150	1 30	200	50	135
3	50	35	6	6	...	S.-M.	100	...	1	38,455	19,455	19,000	1 25	210	50	1,587
4	15	12	5	4	1	M.	100	...	...	7,938	5,198	2,740	1 40	160	60	412
5	26	46	4	4	2	S.-M.	74.4	1	1	44,011	32,588	11,423	1 00	164	50	382
6	17	17	4	4	...	Day.	6,200	...	...	6,200	6,200	...	1 00	232	50	100
7	6	4	2	2	...	M.	100	...	...	650	650	...	1 22	80	50	7
8	12	9	2	2	...	S.	5,750	...	...	5,750	5,750	...	1 07	230	50	75
9	382	376	25	20	7	S.-M.	75½	...	1	76,252	61,162	15,090	1 00	86	35	1,019
10	26	16	7	7	...	M.	66.32	...	...	2,227	1,477	750	1 05	87	35	12
11	6	4	2	2	...	W.	100	...	...	640	640	...	1 25	80	40	10
12	6	6	2	2	1	...	100	...	...	925	925	...	1 40	77	40	8
13	4	2	...	...	...	...	100	...	...	600	600	...	1 50	150	40	12
14	10	4	1	1	...	...	100	...	...	750	700	50	1 60	38	40	7
15	10	4	1	1	...	...	100	...	...	1,500	1,400	100	1 60	150	40	12
										218,953	160,575	58,378	...	...	...	3,738
													\$1.125	193	...	...

*Will County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	235	235	12	12	1	S.-M.	95	..	27	68,500	65,091	3,409	\$1 20	139	\$0 50	.....
2	27	20	1	1	.....	..	100	..	..	4,500	3,500	1,000	2 00	180	50	.....
3	41	36	5	4	4	..	80	..	12	13,951	11,394	2,551	1 35	160	50	.....
	303	291	18	17	5	.....			20	86,951	79,985	6,966				1
													\$1.256	160		

## SECOND INSPECTION DISTRICT—1896.

MR. GEORGE A. SCHILLING,

*Secretary of the Bureau of Labor Statistics, Springfield, Ill.:*

SIR:—I herewith submit the annual report for the Second District, as required by section 12 of the Mining Law.

This report gives the number of mines in operation, shipping and local, number of tons of coal mined, number of fatal and non-fatal accidents, number of miners employed and the number of other employes in and about the mines, together with such matters pertaining to coal mining which is of interest to the public.

The following summaries for the district are given:

Total number of mines.....	196
Total number of shipping mines.....	49
Total number of local mines.....	137
Number of new mines.....	13
Number of mines abandoned.....	33
Average number of miners employed.....	4,767
Highest number of miners employed.....	5,554
Number of all other employes under ground.....	676
Number employed above ground.....	558
Boys under 16 years employed under ground.....	144
Total tons of all grades sold or consumed.....	2,690,220
Total tons of lump coal produced.....	2,146,567
Total tons other grades.....	543,660
Number of accidents.....	141
Number of fatal accidents.....	11
Number of non-fatal accidents.....	130
Number of tons produced to each fatal accident.....	244,563
Number of tons produced to each non-fatal accident.....	20,694
Number of wives made widows.....	6
Number of children made fatherless.....	23
Number of mining machines in use in the district.....	5
Number of men employed in machine mines.....	88
Number of tons produced by machines.....	19,769
Estimated number of acres worked out during the year.....	589
Number of kegs of powder consumed.....	46,665

Comparative table of total products of all grades for years ending July 1, 1895 and 1896:

COUNTIES.	1895. All grades	1896. All grades	Increase, tons.	Decrease, tons.
Bureau.....	834,541	1,042,304	207,763	
Henry.....	135,967	136,415	448	
Marshall.....	346,281	389,429	43,148	
Mercer.....	462,011	450,071		11,940
Peoria.....	437,457	457,061	19,604	
Rock Island.....	45,585	34,065		11,520
Stark.....	22,131	18,085		4,046
Woodford.....	131,577	162,790	31,213	
Totals.....	2,415,550	2,690,220	302,776	27,506
Net increase.....			274,670	

Comparative table of total product of lump coal for years ending July 1, 1895 and 1896:

COUNTIES.	1895. Tons lump	1896. Tons lump	Increase, tons.	Decrease, tons.
Bureau.....	716,313	833,644	117,331	
Henry.....	127,484	126,067		1,417
Marshall.....	275,070	302,779	27,709	
Mercer.....	348,681	309,604		39,077
Peoria.....	381,883	378,704		3,179
Rock Island.....	42,237	32,304		9,933
Stark.....	22,131	18,085		4,046
Woodford.....	116,416	145,380	28,964	
Totals.....	2,030,215	2,146,567	114,004	57,652
Net increase.....			116,352	

Comparative table of product of other grades of coal for years ending July 1, 1895 and 1896:

COUNTIES.	1895. Other grades, tons.	1896. Other grades, tons.	Increase, tons.	Decrease, tons.
Bureau.....	118,228	208,660	90,432	
Henry.....	8,483	10,348	1,865	
Marshall.....	71,211	86,650	15,439	
Mercer.....	113,330	140,467	27,137	
Peoria.....	55,574	78,357	22,783	
Rock Island.....	3,348	1,761		1,587
Stark.....				
Woodford.....	15,141	17,410	2,269	
Totals.....	385,315	543,653	159,925	1,587
Net increase.....			158,338	

*Labor Troubles.*—The miners at Sholl Bros. mine, near Hollis, Peoria county, were notified that after January 25, 1896, the price for digging would be reduced from 51 to 45 cents per ton, mine run. On that day they came out on a strike, but after staying out until March 1, they returned to work at the reduced price. At the same time the miners at Wolschlags mine, Hollis, came out for the same cause, but were only out a short time when they formed a co-operative company with Mr. Wolschlag and went back to work. On April 1, 1896, the miners at Newsam Bros. mine, Kingston mines, Peoria county, came out on strike. They were receiving up to that time 67½ cents per ton, screened coal. The owners of the mine claimed that on account of machine mined coal going into the same market it was impossible to pay that price. The men started to work at 52 cents per ton, but only worked a few days when they came out again. The mine was then shut down and equipped with electric mining machines.

The loaders and blasters at the Reed City mine were reduced from 32 to 27 cents per ton, and after being out a short time returned to work at 27 cents per ton, mine run, for blasting, loading and propping the rooms and furnishing their own powder.

*New Mines.*—Isaac Wantling & Son have put down a new shaft at Pottstown, Peoria county, on the Peoria branch of the C. B. & Q. R. R. to No. 2 seam of the Illinois geological section. The coal was found at a depth of 109

feet below the surface, and is an average thickness of 32 inches. Excellent quality. The shaft is 7x14 feet, and is timbered on the "crib" style from the top to bottom, making a very strong and durable shaft. The tower, engine, boiler, etc., are of the best; a pair of geared Litchfield engines, 12x16 inch cylinders, a Litchfield fan, 12 feet in diameter, altogether making a very good equipment. At present writing the mine has been developed sufficiently to employ 36 men, with the prospects of being able to employ 100 by the first of October.

Spring Valley Coal Company have just completed a new shaft to the workings of their No. 1 shaft, which burned down on November 28, 1894. After an ineffectual attempt to reopen No. 1 they abandoned it and sunk another 250 feet east of the old one. It is being equiped with a steel tower and every precaution will be taken to prevent fire in the future. A brick wall with stone foundation is built at the bottom for a distance of about 200 feet on each side of the shaft, and steel I beams 15 inches deep are set on top of the wall to support the roof. A 12½ foot in diameter Capell fan, said to have a capacity of 100,000 cubic feet of air per minute, will furnish ventilation to the mine.

In Rock Island county, near Milan, David Walsh has put down a new shaft and is now pushing the work of opening up with a view of using it the coming winter and abandoning the old one.

J. M. Robinson of Elmira, Stark county, has completed sinking a new shaft to No. 6 seam of the Illinois geological section, but has not commenced to open up yet. The shaft has been allowed to fill up with water. He expects to get the water out and open up this fall.

In Rock Island county, near Blossomburg, Stoddard & Barr have opened up the old Park & Hilliar mine and are driving entry into a new field of coal. They are employing 15 men and expect to increase the force to 50 this fall.

*Abandoned Mines.*—A number of mines in this district have been abandoned during the past year. Principal among which is the New Milliard mine No. 3 of Peoria; Lowery's No's 1 and 2 Orchard mines, Peoria county; Isaac Wantling & Son's Slope, Pottstown, Peoria county; Sholl Bros. shaft No. 2, Hollis, Peoria county. These were all shipping mines and have been abandoned permanently, except Lowery's No's 1 and 2 Orchard mines, which may be opened up again when the trade will justify. A number of local mines throughout the district have been abandoned principally on account of being worked out and the dull trade would not justify the opening of new ones to take their place.

Escapements have been sunk by the following persons:

Fred Mohn.....	Peoria.....
Messmore & Anderson.....	Kewanee.....
W. H. Lyle.....	Kewanee.....
Robert Taylor.....	Princeville.....
G. W. Saunders.....	Brimfield.....
Harry Storry.....	Wyoming.....

I found a number of mines that had escape shafts but no means of getting the men out were it necessary. These I caused to build stairways and otherwise equip their escapements according to law.

On assuming the duties of Mine Inspector of the Second District I found that at a number of large mines the law governing the hoisting and lowering of men was not being complied with. In some instances men were allowed to do their own signalling and take the chances of getting safely on the cage. I called the attention of the mine operators to these violations of the law, and posted up extracts of the law at the top and bottom of mines, and will say that in nearly every instance the operators are endeavoring to comply with that portion of the law.

*Accidents.*—The number of fatal accidents this year is eleven. Five of the killed were single and six married. The latter leaving 24 persons dependent.

The following is a detailed report of the manner in which each lost his life:

✓ November 1, 1895, Wm. Cook, aged 64, married, was fatally injured by a fall of rock while taking down some loose coal in his place, in John Summer-son's mine, near Blossomburg, Henry county. He was injured about 5 o'clock p. m., and died about 9:30 the same evening. He left a widow and three married children, two sons and one daughter.

✓ December 5, 1895, Joseph Guest, Jr., aged 20 years, unmarried, was killed by falling down No. 2 shaft of the Spring Valley Coal Co., Spring Valley, Bureau county. Deceased had been working all night, and came up on the west cage with nine others about 5 o'clock a. m. When he stepped off the cage at the upper landing, he turned to the left and walked into the east chamber of the shaft, falling a distance of 342 feet. The gate on the east chamber of the shaft being up about five and one-half feet, leaving the chamber unprotected. The shaft being the upcast, a cloud of steam was hanging over it, making it difficult for the men to see their way from the cage in the dark. There were no lights around the top, nor no man to safely see the men off the cages, as required by law.

✓ December 23, 1895, at No. 3 shaft of the Spring Valley Coal Co., Spring Valley, Bureau county, a laborer, named Jacob Cewe, was killed by falling down the shaft. The deceased, with some other laborers and the night top eger, was sending down timber from the lower landing. They had only one more cage of props to send down. The car was on the track leading to the north cage, when the eger heard the cage land on the stops, and thinking it was the north cage, opened the gate leading into that chamber, and went back and assisted the deceased to push forward the car. The cage having landed on the south side, they pushed the car of props into the empty chamber, and the deceased fell to the bottom with the car and was instantly killed. He was 22 years of age, and single. Jacob Grudes, the top eger, seized the signal lever, and thereby saved himself from falling in along with the deceased. The evidence showed that the top was well lighted.

✓ On January 13, 1896, at the White Breast Fuel Co.'s mine at Ladd, Bureau county, Dominick Bugni, an Italian miner, aged 61 years, was fatally injured while moving his tools from one part of the mine to another. While passing a driver at a parting, he was told to put his tools in a car, and not to go in ahead of the mule, as it was a new mule the driver was breaking in; but he paid no heed, or did not understand, and passed on. When he got about 250 feet ahead of the driver, the mule started up and ran away. De-

ceased got to a switch and stepped in, as he supposed out of the way, but the car jumped the track at the frog and caught his left leg between it and the cog, crushing it. The accident occurred about 9 o'clock a. m., and he died at 3 o'clock the following morning. He leaves a widow and five children in Italy, all dependent.

✓ On January 13, 1896, at Marquette Coal Co.'s mine, Marquette, Bureau county, Edward Sweeney, miner, married, aged 37 years, was fatally injured by a fall of coal in his room. He was setting a prop when the 'sprag' that was supporting the coal gave way, allowing the coal to fall on him. He lived until the 19th. Deceased leaves a wife and four children. One boy able to work.

✓ On February 10, 1896, at No. 2 shaft of the Spring Valley Coal Co., Spring Valley, Bureau county, George Rovorock, an Italian miner, aged 54, unmarried, was killed at the bottom of the shaft while waiting to be hoisted after his day's work. He was in a sitting position between two timbers, about four feet from the shaft, and while the eagers were cross-caging a trip of empty cars from the south to the north side of the shaft, the trip being pulled by a mule team, jumped the track and caught deceased's head between it and the timber, killing him instantly. Deceased had been told several times by the eager and others, to get to a more safe place, but being anxious to get on the cage as soon as he could, would not leave.

✓ On April 29, 1896, at Chicago & Minonk Coal & Tile Co.'s mine, at Minonk, Woodford county, George Lisiesieki, a Polish miner, aged 43, married, was killed by a fall of rock in his room. He had been working at the lower end of his room, and came to the road head to mine a little, while his "buddy" finished loading a car, preparatory to going home, when a piece of rock fell without warning, killing him instantly. The rock weighed about 2,500 pounds. It was exposed on two sides by "slips" running into each other at right angles. Deceased leaves a widow and three children, all dependent.

✓ On May 11, 1896, at Sholl Bros. mine, at Hollis, Peoria Co., Wm. Hoffman, miner, aged 57, married, was fatally injured. Deceased came late that morning, and instead of walking into his room, he jumped into the last car while the trip was going down the slope. It is supposed he had not got properly into the car, as he was struck by a trap door at the entrance and bruised internally. He lived until the 16th of May. The evidence showed that the company had repeatedly issued orders forbidding the men to ride down the slope. Deceased leaves a widow and four children, two of whom are able to work.

✓ On May 21, 1896, at The Blue Fly Mine, Pottstown, Peoria county, George Hancock, miner, aged 45, married, was fatally injured in a room he was going to start work in. The mine is a new one and is being opened up on the long wall system, a Jeffrey machine being used to undercut. Deceased, in company with Mr. Wantling, was sitting near the face of the room watching the machine and conversing with Mr. Wantling when he noticed a piece of soapstone hanging loose. He called Mr. Wantling's attention telling him to move from under it. In a few minutes after deceased went right under it himself, when it fell, the edge of it striking him on the back just be-

low the shoulders, severing the vertabræ. He was taken home and lingered until June 2d, and died, leaving a widow and six children, one of whom is able to work.

✓ On June 6, 1896, at Wenona Coal Co.'s mine at Wenona, John Coppin, driver, aged 25, unmarried, was fatally injured while attending to his duties in the above mine. Deceased, along with another driver named Geo. Bowers, had just started in from the engine plane "parting" with a trip of empty cars each. They had got about 75 feet inside of the above named 'parting' and were met by a train of loaded cars 25 in all that had run away from another 'parting' on top of a hill about 450 feet from the end of the engine plane. Deceased was so seriously injured that he never regained consciousness. He died on the 10th, four days after the accident. The 'parting' from which the loaded cars started is located on the top of a hill and a 'block' is used to prevent cars from running away, but it was not the especial duty of anyone to see that this 'block' was properly adjusted so as to hold the loads, and from the evidence obtained it seems the first one of the inside drivers that came to this 'parting' with a trip after the outside drivers had left was supposed to run ahead and adjust the 'block.' In this instance the driver, Mr. John Young, testified that he came into the 'parting' with a trip of four loaded cars followed closely by another driver with a loaded trip. He said that on bumping the loads that were already standing on the 'parting' he ran ahead to put in the 'block' but lost his light and while returning to get a light the train of loaded cars had started past the 'block' and down the hill crashing into the drivers who were coming in with empty trip. Such an accident as this can be clearly attributed to the desire of the management to run the mines at the lowest cost and without regard to the lives of their employés, as in this mine a competent man ought to have been in charge of that 'parting' and 'block.'

On June 9, 1896, at Zadoc Wynn's mine near Coal Valley, Rock Island county, John E. Kehoe, top laborer, aged 22, unmarried, was killed while attempting to place a piece of gas pipe across the top of the shaft to rest the water box on. The evidence shows that the engineer, Mr. Ziegler, was hoisting water out of the shaft by a box fastened under the cage and deceased was attending to the box as it came up, putting a piece of gas pipe across the shaft to rest the box on while it was being emptied and while pushing the pipe under the box the hoisting rope broke carrying deceased down the shaft a distance of 45 feet, killing him instantly.

The following tables give the details of the fatal and non-fatal accidents:

*Fatal Casualties in and about Coal Mines in the Second District of Illinois, for the Year ending July 1, 1896.*

Date.	Name.	Age.	Occupation.	Residence—Town.	Name of Mine.	Married.	Widow.	Children.	Shin- gle.	Persons de- pendent.	Cause of Accident.
1895.											
November	1 Wm. Cook.....	64	Miner.....	Coal Valley.....	Summersons.....	1	1	3	1	1	1 Fall of rock in his room.....
December	5 Joseph Guest, Jr.....	20	".....	Spring Valley.....	No. 2.....						Falling down shaft.....
	23 Jacob Cewe.....	22	Laborer.....	".....	No. 3.....					1	".....
1896.											
January	13 Dominick Bugni.....	64	Miner.....	Ladd.....	"B".....	1	1	5		6	Pit-car jumping track.....
	13 Edward Sweeney.....	36	".....	Marquette.....	Marquette.....	1	1	3		4	Falling coal in his room.....
February	10 Geo. Rovoric.....	54	".....	Spring Valley.....	No. 2.....					1	Caught by pit-car at bottom of shaft.....
April	29 Geo. Lisiesicki.....	43	".....	Minonk.....	C. & M. C. & Tile Co.....	1	1	3		4	Falling rock in his room.....
May	11 Wm. Hoffman.....	60	".....	Bartonville.....	Shells No. 1.....	1	1	3		2	Caught by trap while riding on trip.....
	21 Geo. Hancock.....	45	".....	Pottstown.....	Blue Edy.....	1	1	6		7	Falling rock in his room.....
June	6 John Coppin.....	25	Driver.....	Wenona.....	Wenona.....					1	Loaded trip running away.....
June	9 John E. Kehoe.....	22	Laborer.....	Milan.....	Wynnis.....					1	Falling down shaft.....
	Totals.....					6	6	23	5	24	



*Recapitulation of Fatal Casualties—Second District—1896.*

Residence.	No.	Occupation.	No.	Cause.	No.	Colliery.	No.
Bartonville .....	1	Driver .....	1	Falling down shaft.	3	Wantling & Son.....	1
Coal Valley.....	1	Laborer.....	2	Falling rock.....	3	Chi. & Min'k C. & Tile Co	1
Ladd.....	1	Miner .....	8	Falling coal.....	1	Marquette Coal Co.,.....	1
Marquette.....	1			Cars jumping track	2	Sholl Bros.....	1
Milan .....	1			Riding on trip.....	1	Spring Valley Coal Co...	3
Minonk.....	1			Runaway trip .....	1	Summerson's.....	1
Pottstown.....	1					Whitebreast Fuel Co.....	1
Spring Valley...	3					Wenona Coal Co.....	1
Wenona.....	1					Z. Wynn's.....	1
Totals.....	11		11		11		11

*Non-Fatal Casualties in and about Coal Mines in the Second District of Illinois, for the year ending July 1, 1896.*

Date.	Name.	Age.	Occupation.	Residence— Town.	Name of Mine.	Married.	Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1895.											
July	8 Wm. Hopkins.....	17	Driver.....	Spring Valley	No. 1	1	1	1	1	Hand hurt by fall chain.	*
	9 Robt. Meredith.....	50	Miner.....	Wanlock	No. 2	1	1	1	1	Back hurt by falling rock	*
	10 T. J. Porter.....	40	"	Toluca	Alden Coal Co	1	1	3	4	Foot hurt, fall of coal	20
	11 Richard Morgan.....	42	"	Kewanee	No. 1	1	1	6	7	Back hurt, fall of rock	9
	12 Peter Anderson.....	32	"	Toluca	"	1	1	1	1	Ribs broken, fall of rock	72
	13 Thos. Bradford.....	29	"	Toluca	"	1	1	1	1	Leg hurt by pit cars.	*
	14 Patrick Sheehan.....	30	Cager.....	Spring Valley	No. 3	1	1	2	3	Hand hurt, fall of coal	20
	25 Franz Biasa.....	35	Miner.....	Toluca	No. 1	1	1	2	1	Leg broken, fall of coal	*
	26 John Duprez.....	36	"	"	"	1	1	1	3	Ankle hurt by pick.	7
	31 Wm. Lewis.....	40	"	"	"	1	1	1	1	Hand hurt, fall of rock	59
Aug.	2 Henry Landisell.....	40	"	Gilchrist	"	1	1	1	1	Arm and hand hurt, fall of rock	36
	20 Geo. Urchison.....	35	"	Spring Valley	Empire Coal Co.	1	1	2	3	Collar bone broken by shot	*
	21 Andrew Boroski.....	34	"	Toluca	No. 4	1	1	1	1	Leg hurt by pit car.	30
	23 John Fitzgerald, Jr.....	26	Laborer.....	Spring Valley	No. 1	1	1	1	1	Ankle hurt by fall of rock	*
	29 Dominick Rock.....	26	Miner.....	Spring Valley	No. 3	1	1	3	1	Leg hurt by fall of rock	5
Sept.	4 Andrew Zeglis.....	35	"	Toluca	No. 1	1	1	1	1	Foot hurt, fall of rock	25
	5 Wm. Vanek.....	18	Driver.....	Gilchrist	"	1	1	1	1	Hurt by runaway car	72
	9 Wm. James.....	50	Miner.....	Sherrard	Empire Coal Co.	1	1	1	1	Leg broken, fall of rock	30
	12 John Nelson.....	35	Laborer.....	Toluca	C. V. Mng. Co.	1	1	1	1	Hurt by rock falling on pit car.	14
	17 C. Salvatore.....	26	Fireman.....	Wanlock	No. 1	1	1	1	1	Hand hurt between timber and car.	30
	20 F. Strauss.....	30	"	Toluca	Alden C. Co.	1	1	1	1	Powder exploded while making cartridge.	33
	24 Matt Stuekert.....	30	"	"	"	1	1	1	1	Hand hurt, fall of rock	11
	28 Andrew Faulkner.....	42	Laborer.....	Wenona	"	1	1	1	1	Leg crushed between cars	10
	30 Chas. Laut.....	21	Miner.....	Toluca	"	1	1	1	1	Foot hurt, fall of coal	7
Oct.	1 John Barons.....	26	Cager.....	Toluca	"	1	1	1	1	Foot crushed by pit car.	7
	1 Joseph Weyzand.....	30	Driver.....	Roanoke	R. Mng. Co	1	1	6	5	Leg hurt by pit car.	64
	2 Wm. Nicklan.....	36	Miner.....	Ladd	B.	1	1	2	3	Leg broken by fall of coal	19
	5 John R. Evans.....	25	Driver.....	Toluca	No. 1	1	1	3	4	Kicked by mule	9
	5 Jas. Keating, Jr.....	25	Cager.....	"	"	1	1	1	1	Hurt by pit car	60
	12 M. Vissegio.....	35	Miner.....	Spring Valley	No. 3	1	1	1	1	Leg fractured by fall coal	*
	14 Nicholas Fillet.....	20	"	Munook	C. & M. C. & Title Co.	1	1	1	1	Two fingers cut off by fall of rock	*
	17 John Clinton.....	28	Driver.....	Spring Valley	No. 3	1	1	1	1	Leg broken by fall of rock	*
	18 Thos. Kelly.....	20	Miner.....	"	"	1	1	1	1	Leg hurt by falling off car	*
	22 Aug. Vidal.....	40	"	Toluca	No. 1	1	1	1	1	Arm and leg hurt by pit car	*
	22 Chas. S. Thompson.....	43	"	Ladd	B.	1	1	2	3	Left knee hurt (cause not given)	32
	25 A. tonio Odrato.....	30	"	Seatonville	No. 1	1	1	1	1	Two ribs broken, shovel handle, while descending.	72
	26 John Chivini.....	30	"	Toluca	No. 1	1	1	1	1	Hip dislocated; ca. runaway; not at work July 1, '96.	9
	26 Wm. Breast.....	50	"	"	"	1	1	1	1	Ankle sprained (cause not given)	9
	26 M. Nadzum.....	27	"	"	"	1	1	1	1	Foot hurt by fall of coal	25
										Leg hurt by fall of coal	25

Nov.	29	Anton Smith.	30 Miner.	Toluca	No. 1	1	5	Hurt by fall of coal	8
	1	Bernard Shuber.	45 Laborer l.	Spring Valley	No. 2	1	6	Foot hurt by fall of rock.	*
	2	John Claire.	16 Trapper.	Toluca	No. 1	1		Finger crushed coupling cars	18
	6	J. L. Stephens.	64 Miner.	Cable.	C. V. M. Co.	1	4	Shoulder hurt, fall of coal.	†
	9	A. S. Anderson.	54 Miner.	Galva.	Herdien C. C.	1		Back hurt, fall of rock (not at work July 1, 1896).	7
	15	John Barons.	26 Cager.	Toluca	No. 1	1	1	Hand bruised between pit cars.	*
	15	Pat Gillan.	27 Miner.	Wenona	No. 1	1		Leg broken by fall of rock.	10
	16	John Williams.	30 "	Wenona	No. 1	1		Foot hurt, fall of coal.	28
	18	Thos M. Gill.	36 "	Marquette	Marquette C. Co.	1		Arm broken by fall of rock	25
	19	John Murrell.	25 Driver	Weona	No. 1	1		Hand hurt by tail rope.	*
	20	John Peron.	25 Miner.	Spring Valley	No. 3	1		Back hurt, fall of rock.	35
	21	Chas. Kerp.	23 "	Toluca	No. 1	1		Foot hurt, fall of coal.	8
	22	Long Roemanetti.	55 "	Ladd.	B.	1	5	Shoulder and breast hurt, fall of rock.	36
	23	Thos. Milligan.	40 "	Toluca	No. 1	1		Toes broken by pit car	60
	24	Bernardo Petroni	39 "	Ladd.	B.	1	2	Leg hurt, fall of coal.	23
Dec.	2	Edward Warren.	42 Laborer	Modena.	Savill's mine.	1		Bruised by falling down shaft.	7
	16	Peter Gal.	34 Miner.	Toluca	No. 1	1	2	Hurt by fall of rock.	20
	20	John Leonard.	26 "	Roanoke.	R. M. Co.	1	4	Foot sprained (cause not given).	9
	23	Wm. Collins.	40 "	Toluca	No. 1	1		Leg bruised, fall of coal.	20
	23	F. Frioli.	45 "	Spring Valley	No. 3	1		Arm hurt, fall of rock.	9
	27	H. Saunders.	30 "	Wenona	No. 1	1	2	Hurt by fall of coal	*
	29	E. Pumnitt.	34 "	Wenona	No. 1	1		Leg broken by fall of coal.	15
	30	J. Galinski.	28 "	Toluca	No. 1	1	1	Fingers hurt, fall of rock.	*
No date.		Robt. Bradley.	Driver	Bartonville.	Sholl Bros.	1		Finger taken off coupling cars.	8
		John Reid	Miner.			1		Foot hurt by fall of coal.	17
1896									
Jan.	2	Vincenzo Collusi.	34 "	Ladd.	B.	1	2	Foot hurt by fall of coal.	20
	6	D. White.	28 "	Toluca	No. 1	1		Rib broken by fall of rock	62
	6	Wm. Norton.	24 "	Kewanee.	Henry Bros.	1		Leg broken by fall of coal	*
	6	S. Rashinski.	56 "	Minonk.	C. & M. C. & Tile Co.	1	1	Foot broken by fall of coal.	30
	7	H. Cox.	28 "	Wenona.	No. 1	1		Rib broken, kicked by mule.	10
	7	Lehard Samuelson	26 Miner.	Cable.	C. V. M. Co.	1	1	Hurt by coal flying from shot.	*
	14	John Johnson.	25 "	Spring Valley	No. 2	1		Foot hurt, fall of coal.	*
	15	Joe Miller	16 "	Minonk	C. & M. C. & Tile Co.	1		Back burned by premature blast.	40
	15	Ed Kegan.	30 "	Toluca.	No. 1	1		Finger hurt, fall of coal.	*
	17	John Smith.	30 Laborer	Spring Valley	No. 2	1		Foot broken by fall of coal.	68
	17	John Re.	30 Miner.	Sherrard.	C. V. M. Co.	1		Leg broken by fall of rock.	15
	23	Morgan Davies.	28 "	Toluca.	No. 1	1		Ankle hurt, fall of rock.	25
	24	Mos. Galinski.	45 "	Kewanee	Kirley's mine	1	9	Finger broken by fall of rock.	*
	26	James Humphrey.	24 "	Spring Valley	No. 3	1		Hurt by fall of rock.	*
	27	John Rossetti	44 "	Spring Valley	No. 4	1	7	Leg broken by fall of coal	16
	27	John Cappello	21 "	Toluca	No. 1	1	8	Finger broken by fall of coal	55
	28	R. Edwards.	28 "	Peoria.	Excelsior.	1	2	Eye hurt, premature blast	10
Feb.	1	Cornelius Sauer.	35 "	Toluca	No. 1	1	3	Eye hurt (cause not given).	8
	4	M. L. Booker.	38 "	Peoria.	No. 1	1		Hand hurt (cause not given).	18
	5	John Duprez.	21 "	Toluca	No. 1	1		Jaw-bone broken. Kicked by mule.	*
	6	Fred Walton.	22 "	Gilchrist.	Empire Coal Co.	1	1	Hurt between pit cars.	60
	8	Ed Frame.	26 "	Spring Valley	No. 3	1		Leg broken cars jumped track	*
	15	Thomas Maynard.	40 Miner.	Gilchrist.	Empire Coal Co.	1		Leg broken by fall of coal.	*
	15	A. Katto	27 "	Wenona.	No. 1	1		Head and back hurt, fall of rock	*
	20	Benjamin Tezzo.	50 "	Ladd.	"B."	1	4	Leg broken by falling off trete.	*
March	2	Benjamin Fisher.	27 Blacksmith.	Roanoke.	R. M. Co.	1			

## Non-Fatal Casualties—Second District—Concluded.

Date.	Name.	Age.	Occupation.	Residence— Town.	Name of Mine.	Married.	Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— Days.
1896.											
March	40 Robert Elliott.	28	Sinker	Elmira.	Robinson's mine.		1			Leg and arm broken, fell down shaft.	44
"	10 F. Matowitz.	"	Miner.	Minonk	C. & M. C. and T. Co.		1	3		Leg broken, cage ran away (not at work July 1, 95).	+
"	11 Ernest Myers.	"	"	Coal Valley.	Zadoc Wynn.		1			Back injured, fall of rock (not at work July 1, 95).	+
"	13 John Hergert.	50	"	Cable.	C. W. M. Co.		1	1		Shoulder dislocated, fall of rock.	34
"	33 Olaf Lund.	35	Fireman	Seatonville.	C. W. & V. Coal Co.		1	4		Hand partly cut off coupling cars.	92
"	27 H. Doherty.	51	Miner.	Toluca.	Marquette Coal Co.		1	1		Head and back hurt, fall of rock.	14
"	30 John Parsons.	40	Fireman	Toluca.	No. 1.		1			Arm broken falling off boiler.	30
April	6 Aaron Brown.	38	Miner.	"	"		1	3		Arm broken falling off boiler.	8
"	10 Charles Johnson.	55	"	Galva.	Gray Eagle Coal Co.		1			Finger hurt (cause not given).	21
"	15 M. Meikel.	31	"	Toluca.	No. 1.		1	1		Back hurt, fall of coal.	8
"	15 Peter Troy.	18	"	Spring Valley	No. 4.		1			Arm and foot hurt, fall of coal.	*
"	16 B. A. Fisher.	45	"	Toluca.	No. 1.		1	3		Hand hurt, fall of coal.	15
"	16 L. N. Jones.	28	"	"	"		1			Finger hurt, fall of coal.	14
"	16 Charles Blouse.	28	"	"	"		1			Ankle hurt, fall of coal.	7
"	16 Charles Bigna.	35	"	"	"		1			Breast hurt falling on pick.	35
"	24 Anton DeBolt.	23	"	Spring Valley	No. 3.		1			Arm broken, fall of coal.	*
"	24 James Muir.	18	Driver	Modena.	Kennick's.		1			Arm broken, kicked by mule.	30
"	28 George Talbot.	"	Sinker	"	"		1			Bruised falling down shaft.	30
"	28 Will McGruce.	"	"	"	"		1			Bruised falling down shaft.	15
"	30 Wm. Dodd.	33	Day man	Pottstown	Blue Fly.		1			Leg hurt, was caught in mining machine.	40
"	30 Vital Casarato.	33	Miner.	Toluca.	No. 1.		1	2		Finger hurt (cause not given).	53
"	30 Stephen Tingie.	28	"	Ladd.	"		1			Finger hurt, fall of coal.	+
May	2 Frank Knopka.	33	"	Elmwood	E. Coal Co.		1	2		3 Back hurt, timber fell on it.	60
"	2 Emile Bonlard.	26	"	"	No. 3.		1	2		3 Foot hurt, fall of rock.	+
"	6 Charles Noe.	37	"	Spring Valley	No. 1.		1	2		3 Head and back hurt, fall of rock.	60
"	14 And. Hobert.	55	Miner.	Toluca.	"		1			Leg broken, fall of rock.	+
"	17 Frank Lenzen.	25	Top cager	"	"		1			Foot hurt (cause not given).	10
"	17 S. Moraski.	28	Miner.	"	"		1			Hurt by fall of coal (not at work July 1, 1896).	+
"	27 George Brinisto.	34	"	Ladd.	"		1	1		Leg hurt, fall of rock.	15
"	29 James Campalone.	30	"	Toluca.	No. 1.		1			Hand hurt between car and roof.	10
June	2 Henry McAvoy.	22	Driver	Ladd.	"		1	1		2 Side and back hurt, kicked by mule.	30
"	3 J. A. Vaugh.	31	Miner.	Toluca.	No. 1.		1	2		3 Arm hurt by pit car.	20
"	6 George Bowers.	23	Driver	Wenona	C. V. M. Co.		1			1 Hurt by trip of loaded cars.	+
"	6 Gus Nelson.	33	Miner.	Cable.	"		1	1		2 Hip hurt, fall of rock.	8

June	13 Charles Dufrain.	28 Miner.	Bartonville.	Collier Coöp. Co.	1	3	4	8
15	Mike Donnelly.	30	Toluca	No. 1.	1	1	Head hurt by falling prop.	*
15	A. T. Howard.	32	Spring Valley	No. 3.	1	2	Leg bruised, fall of coal.	10
16	Wm. Newman.	21	Toluca	Marquette Coal Co.	1	1	Finger hurt (cause not given).	†
25	Bertolis Bethone.	50	Marquette		1	1	Hip dislocated, fall of coal.	†
	Totals (injured, 130).				67	63	178	2341

\* Time lost not given.

† Not at work July 1, 1896.

The average lost time of the 92 men reported is 24.34 days.

*Recapitulation of Non-Fatal Casualties—Second District—1896.*

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Bartonville...	3	Blacksmith...	1	Cage .....	1	Alden Coal Co.....	2
Cable.....	4	Cager.....	5	Coupling cars.....	3	Coal Valley Mining Co.....	6
Coal Valley...	1	Driver.....	13	Explosion of powder.....	1	C. & M. Coal and Tile Co..	4
Elmwood.....	1	Fireman.....	3	Engine run away.....	2	Collier Cosp. Coal Co.....	1
Elmira.....	1	Laborer.....	10	Falling coal.....	33	C. W. & V. Coal Co.....	2
Galva.....	2	Miner.....	94	Falling rock.....	44	Devlin Coal Co.....	53
Gilchrist.....	4	Sinker.....	2	Falling down shaft.....	4	Empire Coal Co.....	4
Kewanee.....	3	Trapper.....	1	Falling off trestle.....	1	Elmwood Coal Co.....	1
Ladd.....	9	Top cager.....	1	Falling off boiler.....	1	Grant's Mine.....	1
Marquette.....	3			Falling on pick.....	1	Gray Eagle Coal Co.....	1
Minonk.....	4			Flying c'l from shot.....	2	Herdien Coal Co.....	1
Modena.....	3			Flying c'l from pick.....	1	Henry Bros.....	1
Peoria.....	1			Kicked by mule.....	5	Kewanee Coal Co.....	1
Pottstown.....	1			Mining machine.....	1	Kirl-y's Mine.....	1
Roanoke.....	3			Premature shot.....	2	Marquette 3d Vein Coal Co	3
Seatonsville...	2			Pit cars.....	18	Myer's Mine.....	1
Sherrard.....	2			Struck with pick.....	1	Re: nick's.....	2
Spring Valley	21			Timber falling.....	2	Roanoke Mining Co.....	3
Toluca.....	53			Tail chain.....	1	Robinson's Mine.....	1
Wanlock.....	2					Savill's Mine.....	1
Wenona.....	7					Spring Valley Coal Co.....	21
						Sholl Bros.....	2
						Wantling & Son.....	1
						Wenona Coal Co.....	7
						White east Fuel Co.....	9
Totals.....	130		130		130		130

The county statistical tables follow, giving a record of each mine in the district.

Respectfully submitted,

CHAS. DUNCAN,

*State Mine Inspector, Second District, Galva, Ill.*

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# STATISTICAL TABLES.

SECOND DISTRICT.

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*Bureau County—Second District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Spring Val. C. C., No. 1.....	Spring Valley	Spring Valley	S	338	3.6	.....	Sh	L. W.	H.
2	" " " " No. 2 & 4.	" "	" "	"	342	3.8	62.57	"	"	"
3	" " " " No. 3.....	" "	" "	"	495	3.8	44.17	"	"	"
4	Whitebreast Fuel Co., "B".....	Ladd.....	Ladd.....	"	465	3.3	36.27	"	"	"
5	C., W. & V. Coal Co., No. 1..	Seatonvill....	Seatonville...	"	410	3.6	25.85	"	"	"
6	Marquette 3d Romein C. Co.	Marquette....	Davenport....	"	302	3.9	19.83	"	"	"
7	Sheffield Mining Co.....	Mineral.....	Sheffield.....	"	45	4.6	2.98	Sl.	R. P.	"
8	Z. E. Williamson.....	Sheffield.....	"	"	85	4.6	.25	"	"	"
9	John Duncan.....	Mineral.....	"	L	20	4.6	.16	Sh.	"	"
10	Peter Duncan.....	"	"	"	40	4.8	.22	Sl.	"	"
11	Hansen & Olsen.....	Sheffield.....	"	"	40	4.6	.39	Sh.	"	"
12	Wm. Brandt.....	Mineral.....	Mineral.....	"	15	4.6	.27	"	"	"
13	Fred Jensen.....	"	"	"	28	4.6	.38	"	"	"
14	Paul Bros.....	"	"	"	45	4.3	.15	"	"	"
15	Bloom & Cox.....	Coal Hollow..	Princeton.....	"	200	4.6	.51	"	"	"
16	A. W. Walton.....	"	"	"	150	4.6	.47	"	"	"
17	Smith & Sons.....	"	"	"	147	4.6	.39	"	"	"
18	Silas Riley.....	Neponset.....	Neponset.....	"	64	4	.18	"	"	"
Totals (18 mines).....							195.04			
Averages.....										



## Bureau County 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC- CIDENTS.		PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Winter.	Summer.				Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
1																
2	730	535	25	25	10	S. M.	84.3	2	7	344,165	290,192	53,976	\$1 25	193		
3	535	495	25	25	10	..	84.5	1	12	242,930	205,162	37,762	1 25	216		
4	390	337	25	25	12	..	81	1	9	176,780	144,722	32,052	1 18	176		
5	301	251	18	18	7	..	100			135,718	114,936	20,782	1 25	135		
6	275	256	25	25	7	..	100	1	3	114,035	49,947	64,088	1 10	165		
7	47	40	3	3		M.	100			13,412	13,412		1 75	250	\$0 60	12
8	12	4	2	2		S. M.	100			1,120	1,120		1 75	100		
9	8					W.	100			728	728		1 50	200		
10	5	3				S. M.	100			1,000	1,000		1 75	200		80
11	8	2	1	1		..	100			1,588	1,588		1 75	175		
12	6	2	2	2		W.	100			1,200	1,200		1 50	180		60
13	7	2	2	1		..	100			1,700	1,700		1 50	200		
14	5	2	1	1		..	100			600	600		1 50	200		65
15	9	5	1	1		M.	100			2,651	2,651		1 75	165		50
16	11	5	1	1		S. M.	100			2,186	2,186		1 75	180		60
17	8	4	1	1		..	100			1,746	1,746		1 75	175		50
18	4		1			W.	100			742	742		1 50	150		80
..	2,355	1,943	133	130	52	..	..	5	33	1,042,304	833,644	208,660				316
..													\$1 23.2	180		

## Henry County—Second District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post-office address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Kewanee Coal Co. No. 1.....	Kewanee.....	Kewanee.....	Sh.	80 4	8.12	Sh.	R. P.	H.	
2	No. 7.....	"	"	"	110 4	9.14	"	"	"	
3	Ripka & Peart.....	"	"	L.	30 4.6	30	Sh.	"	"	
4	Muk Bros.....	"	"	"	42 4	05	"	"	"	
5	Peter Malone & Son.....	"	"	"	25 4	15	"	"	"	
6	Herman Heinrich.....	"	"	"	25 4	10	D.	"	"	
7	Philip Henry.....	"	"	"	72 4	1.43	Sh.	"	"	
8	Reinold Kempin.....	"	"	"	12 4	31	Sh.	"	"	
9	Edward P. Lincoln.....	"	"	"	25 4	08	"	"	"	
10	Mathew Atkinson.....	"	"	"	40 4	35	D.	"	"	
11	Thos. Carter & Son.....	"	"	"	60 4	04	Sh.	"	"	
12	Martin Bros.....	"	"	"	60 4	17	Sh.	"	"	
13	Ralph Todd.....	"	"	"	35 4	25	Sh.	"	"	
14	Messmore & Anderson.....	"	"	"	79 4.6	35	Sh.	"	"	
15	Garland & Dixon.....	"	"	"	50 4	31	Sh.	"	"	
16	Bernard Kirley.....	"	"	"	68 3.8	50	Sh.	"	"	
17	W. H. Lyie.....	"	"	"	67 3.8	75	"	"	"	
18	Bates Bros.....	"	"	"	73 3.10	70	"	"	"	
19	Gray Eagle Coal Co.....	Galva.....	Galva.....	Sh.	68 4	3.25	"	"	"	
20	Herdien Coal Co. No. 13.....	"	"	"	55 4.3	2.17	"	"	"	
21	No. 12.....	"	"	L.	53 4.2	1.14	"	"	"	
22	J. H. Murray.....	"	"	"	57 4.4	1	"	"	"	
23	Philip Murphy.....	"	"	"	20 4	.13	"	"	"	
24	Orphens Kemmerling.....	Hawley.....	Hawley.....	"	33 4	08	"	"	"	
25	John Summerson.....	Blossomburg.....	Coal Valley.....	"	60 4.6	17	D.	"	"	
26	Stoddard & Bair.....	"	"	Sh.	60 4.6	"	"	"	"	
27	Jas. Fairlie.....	Cambridge.....	Cambridge.....	L.	130 2.8	1.57	Sh.	"	"	
28	John Mowbray.....	Atkinson.....	Atkinson.....	"	36 3	77	Sh.	"	"	
29	R. M. Kay.....	"	"	"	40 3	40	Sh.	"	"	
30	Thos. Frew.....	"	"	"	30 3	18	Sh.	"	"	
31	Richard Marley.....	"	"	"	30 3	44	"	"	"	
32	P. Coull.....	"	"	"	35 3	10	Sh.	"	"	
Totals (32 mines).....						31.91				
Averages.....										

## Henry County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.					SUPPLIES	
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	55	45	5	5	12	S. M.	90	1	32,579	29,264	3,315	\$1 35	235	80	80	
2	67	55	5	5	12	..	90	..	36,577	32,977	3,600	1 35	235	80	80	
3	5	1	1	1	..	..	100	..	1,360	1,360	..	1 50	150	..	..	
4	3	1	1	1	..	W.	100	..	200	200	..	1 50	153	70	..	
5	3	1	..	..	..	..	100	..	600	600	..	1 50	183	70	..	
6	12	..	1	1	..	..	100	..	400	400	..	1 50	117	..	..	
7	25	6	2	1	..	S. M.	100	1	5,740	5,740	..	1 50	275	..	..	
8	6	1	1	1	..	..	100	..	1,250	1,250	..	1 50	200	75	..	
9	3	..	2	..	..	..	100	..	340	340	..	1 50	75	75	..	
10	6	1	2	..	..	..	100	..	1,424	1,424	..	1 50	250	60	..	
11	2	..	..	..	..	W.	100	..	152	152	..	1 50	75	75	..	
12	6	3	2	1	..	S. M.	100	..	696	696	..	1 50	155	60	..	
13	4	2	1	1	..	..	100	..	1,000	1,000	..	1 50	150	75	..	
14	4	2	1	1	..	W.	100	..	1,399	1,399	..	1 50	150	60	..	
15	4	2	1	1	..	M.	100	..	1,233	1,233	..	1 50	125	60	..	
16	16	11	3	1	..	S. M.	100	1	3,600	3,600	..	1 50	205	70	..	
17	8	6	1	1	..	..	100	..	3,000	3,000	..	1 50	208	60	..	
18	10	2	1	1	..	..	100	..	2,868	2,868	..	1 50	225	..	..	
19	50	17	4	2	12	S. M.	100	1	13,148	12,748	400	1 25	200	70	..	
20	34	15	3	2	..	S. M.	100	1	8,705	8,205	500	1 28	275	70	..	
21	18	10	3	2	1	..	100	..	4,557	4,557	..	1 50	306	70	..	
22	21	11	1	1	..	..	100	..	4,222	4,222	..	1 50	300	70	..	
23	3	..	1	..	..	..	100	..	520	520	..	1 50	90	..	..	
24	5	1	1	1	..	W.	100	..	320	320	..	1 50	180	..	..	
25	5	..	..	..	..	..	100	1	734	734	..	1 50	166	65	15	
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
27	12	6	1	1	..	S. M.	100	..	4,333	2,600	1,733	2 00	235	75	162	
28	12	6	1	1	..	W.	100	..	2,336	1,836	500	1 75	260	75	..	
29	7	2	2	2	..	..	100	..	1,200	1,200	..	1 75	206	..	..	
30	8	2	1	1	..	..	100	..	520	520	..	1 75	125	70	..	
31	6	1	1	1	..	..	100	..	1,100	800	300	1 75	100	..	..	
32	6	4	1	1	..	..	100	..	302	302	..	1 75	200	..	..	
..	416	241	50	35	7	..	..	1 5	136,415	126,067	10,348	..	..	..	177	
..	..	..	..	..	..	..	..	..	..	..	..	\$1.405	155	..	..	



## Marshall County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC- CIDENTS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1																
2	486	486	75	75	10	S. M.	70		53	308,205	229,390	78,905	\$1 13	299	.....	6,816
3																
4	250	127	15	16	4	..	..	1	7	63,906	56,201	7,705	1 23	176		
5	66	33	4	2		..	100			15,750	15,750		1 25	181	\$0 70	
6	2					W.				30	60		1 25	35		
7						..				155	155		1 25	40		
8	1					..				160	160		1 25	80		
9	1					..				48	48		1 25	20		
10	2					..				820	820		1 25	80		
11	2					..				160	160		1 25	75		
12	2					..				165	125	40	1 25	60		
	815	666	97	93	14	.....	.....	1	60	389,429	302,779	86,650	\$1 15	....	.....	6,824
														219		

## Mercer County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC- CIDENTS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.					Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon	Kegs of powder used during the year.		
	Winter.	Summer.	Winter.	Summer.												
1	245	180	18	14	8	M.	100		3	111,218	66,048	45,170	\$1 50	144	.....	3,807
2	196	158	26	26	10	..	100			70,701	44,794	25,907	1 50	170	.....	3,201
3	15	15	3	3		..	100		1	14,161	10,012	4,119	1 50	65	.....	164
4	204	124	12	10	5	S. M.	70		2	120,164	89,935	30,229	1 10	177	\$0 70	5,958
5	210	210	20	20	4	..	70		4	107,158	74,756	32,402	1 07 1/2	213	60	4,326
6	5	1	1	1		W.	100			1,500	1,500		1 00	109	60	50
7	7	2	1	1		..	100			2,400	2,400		1 00	150	70	85
8	7	2	1	1		..	100			2,000	2,000		1 30	140	70	100
9	48	16	3	3		M.	100			13,002	10,382	2,620	1 15	225	55	500
10	6	3	1	1		..	100			1,220	1,200	20	1 50	200		100
11	13	2	2	1		..	100			2,180	2,180		1 62 1/2	200		100
12	2					W.	100			280	280		1 50	125		8
13	2	3	1	1		..	100			726	726		1 25	130	60	190
14	5	1	1	1		..	100			611	611		1 25	125		40
15	2	2				..	100			500	500		1 75	220		
16						..	100			450	450		1 75	75		
17	6	2	1	1		..	100			800	800		1 50	250	65	40
18	5	5	1	1		M.	100			1,000	1,000		1 75	300	.....	60
	986	726	92	85	27	.....	.....		12	450,071	309,604	140,467	.....	.....	.....	18,729
													\$1 37	162	.....	

## Peoria County—Second District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	Shipping or local mine.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.					
					Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Newsam Bros., Star Mine...	W. of Peoria.	Peoria.....	S	181	4.2	9.50	Sh.	P. R.	H
2	Vicary Bros.....	Limestone tp.	"	"	130	4.	3.54	D.	"	"
3	Royster Bros. & Ziegler.....	"	"	"	75	4.8	2.	Sh.	"	"
4	Peter Grant, Jr., Excell. M.	"	"	"	105	4.	1.59	"	"	"
5	F. P. Schmidt & Son.....	"	"	L	50	4.2	1.50	D.	"	"
6	Richard Cody.....	"	"	"	25	4.6	.53	Sh.	"	"
7	Fred Martin.....	"	"	"	120	4.6	.60	Sl.	"	"
8	Fred Mohn.....	"	"	"	92	4.6	.60	Sh.	"	"
9	Martin & Lane.....	"	"	"	90	4.	.40	D.	"	"
10	Jas. Slone.....	"	"	"	90	4.	.16	"	"	"
11	John Sanpe.....	"	"	"	80	4.	.41	"	"	"
12	Thos. Muir.....	"	"	"	95	4.4	.34	"	"	"
13	John Glenn.....	"	"	"	90	4.6	.19	Sl.	"	"
14	Richard Keif.....	"	"	"	90	4.4	.37	D.	"	"
15	Ed. Brost.....	"	"	"	90	4.6	.94	Sl.	"	"
16	John Birdals, Jr.....	"	"	"	100	4.2	.5	D.	"	"
17	Cook Bros.....	"	"	"	100	4.2	.26	"	"	"
18	Daniel Birdoes.....	"	"	"	100	4.2	.28	"	"	"
19	Schneider & Masterson.....	"	"	"	100	4.2	.25	"	"	"
20	Joos & Ruple.....	"	"	"	95	4.2	.25	"	"	"
21	Newsam Bros., Kingston M.	Kingston M's.	Kingston M's.	S	125	4.8	15.03	"	"	"
22	Jefford & Bros.....	"	"	"	100	4.6	1.	"	"	"
23	Peoria Coal & Mining Co.	Reed City.....	Peoria.....	"	90	4.8	4.38	Sl.	"	M
24	W. E. Foley.....	Mapleton.....	Mapleton.....	"	90	4.6	1.55	"	"	H
25	Sholl Bros., No. 1.....	Hollis.....	Peoria.....	"	100	4.6	7.28	"	"	"
26	No. 2.....	"	"	"	100	4.6	1.90	S	"	"
27	German Cooperative C. Co.	"	Orchard M's.	"	100	4.	3.31	Sl.	"	"
28	Wolschlags Cooperat. C. C.	"	Peoria.....	"	150	4.4	7.55	"	"	"
29	Frank Lowery.....	Orchard M's.	Orchard M's.	"	90	4.6	.90	"	"	"
30	Frank Newsam & Sons.....	LaMarsh Cr.	Mapleton.....	L	125	4.6	.44	D.	"	"
31	Frank Jones.....	"	Pekin.....	"	80	4.6	.03	"	"	"
32	Collier Cooperative C. Co.	Bartonville.....	Bartonville.....	S	190	4.4	8.84	Sl.	"	"
33	Joseph Sholl.....	"	"	"	150	4.6	1.65	"	"	"
34	White Coal Co.....	"	"	L	170	4.6	.85	D.	"	"
35	Winter & Myatt.....	"	"	"	100	4.6	2.57	"	"	"
36	E. Wolland & Bros.....	"	"	"	110	4.4	1.20	"	"	"
37	Ball Coal Co.....	"	"	"	96	4.4	1.50	S	"	"
38	George Keller.....	"	"	"	65	4.4	.45	"	"	"
39	Lot Hurst.....	"	"	"	30	4.	.25	Sl.	"	"
40	Lyman Munroe.....	"	"	"	80	4.6	.13	"	"	"
41	Walter Trasure.....	"	"	"	100	4.6	.17	D.	"	"
42	Isaac Wantling & Son.....	Pottstown.....	Pottstown.....	S	112	2.6	1.61	Sh.	L. W.	"
43	"	"	"	"	200	4.	2.50	Sl.	R. P.	"
44	Thos. Wantling.....	"	"	L	80	4.6	.28	D.	"	"
45	Miller & Pargett.....	"	"	"	80	4.	.06	"	"	"
46	Mike Cusack.....	Young's Sid.	Edwards Stat	S	40	4.6	.50	"	"	"
47	C. B. Kromm.....	Edwards Stat	"	"	40	4.6	.27	"	"	"
48	Howarth & Taylor Bros.....	"	"	"	85	4.2	1.00	"	"	"
49	Nathan Shaw.....	Kramm Stat.	Kramm Stati.	"	70	4.6	.90	"	"	"
50	Elmwood Coal Co.....	Elmwood.....	Elmwood.....	"	215	2.6	13.01	Sh.	L. W.	"
51	John A. Endreas.....	"	"	L	18	4.6	.13	"	R. P.	"
52	John P. Boland.....	"	"	"	30	4.6	.22	"	"	"
53	Hanna City Coal Co.....	Hanna City.....	Hanna City.....	S	250	1.4	.44	"	"	"
54	Fred Henning.....	"	"	L	60	4.9	.01	D.	"	"
55	G. W. Longden.....	Brimfield.....	Brimfield.....	"	40	5.	.24	Sh.	"	"
56	Philip Tully.....	"	"	"	30	4.6	.24	D.	"	"
57	W. G. Saunders.....	"	"	"	20	4.6	.06	Sh.	"	"
58	Chas. Berry.....	Monica.....	Monica.....	"	35	4.6	.22	"	"	"
59	Joseph J. Clarkson.....	Kickapoo.....	Kickapoo.....	"	25	4.	.04	D.	"	"

## Peoria County, 1896—Continued.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC-CI-DS		PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Winter.	Summer.				Fatal.	Non-fatal.	Total number of tons of coal produced, All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
1	55	35	6	6	2	S. M.	100			40,158	30,119	10,039	\$1 00	191	\$0 70	1,825
2	24	10	2	3		W.	100			14,190	14,190		95	214	40	775
3	33	13	3	3		S. M.	83 <sup>1</sup> / <sub>3</sub>			8,754	7,504	1,250	80	132	70	400
4	20	6	3	3	1		75			6,280	4,780	1,500	85	204	80	325
5	23	9	3	3		W.	100			6,731	6,731		1 00	288	75	363
6	8	4	1	1			100			2,400	2,400		1 00	200		120
7	5	2	1	1		S. M.	100			2,720	2,720		1 00	200		170
8	3	3					100			2,800	2,800		1 00	175		200
9	2	2					100			1,600	1,600		1 00	250		100
10	2	2					100			640	640		1 00	250		40
11	5	2					100			1,621	1,621		1 00	120		101
12	2	2					100			1,550	1,550		1 00	225		95
13	4	1	1	1			100			875	875		1 00	120		55
14	3						100			1,700	1,700		1 00	230		102
15	2	5	1	1			100			4,000	4,000		1 00	175		200
16	2						100			201	201		1 00	150	60	17
17	2						100			808	808		1 00	150	60	67
18	2						100			1,145	1,145		1 00	161	60	95
19	2						100			1,008	1,008		1 00	150	60	84
20	2						100			1,008	1,008		1 00	164	60	84
21	146	84	10	7			100			72,112	54,084	18,028	1 00	208	70	3,277
22		14		2			100			4,491	4,491		1 25	110		275
23	88	47	10	5			100			19,769	19,769		80	137	60	197
24	35	10	2	2			100	1	2	7,000	7,000		80	193	50	300
25	40	35	5	4			100			32,757	22,700	10,057	85	218	70	1,352
26	18	10	3	2			100			8,550	6,000	2,550	85	100	70	273
27	69	43	2	2		M.	100			13,232	9,294	3,938	81	186	70	551
28	22	17	2	2			100			30,200	20,300	9,900	82 <sup>1</sup> / <sub>2</sub>	200	60	1,800
29	3	2				W.	100			4,000	4,000		1 15	135	70	250
30	1					S. M.	100			2,000	2,000		87 <sup>1</sup> / <sub>2</sub>	200	60	40
31	30	30	3	3		M.	100		1	160	160		87 <sup>1</sup> / <sub>2</sub>	90		8
32	30	10	3	2		S. M.	100			35,363	24,950	10,413	85	256	60	1,871
33	10	10	1	1			100			7,427	7,427		1 00	161	35	412
34	14	14	2	1		M.	100			3,880	3,880		1 00	200		240
35	7	3	1	1			100			11,577	10,617	960	1 00	250	60	580
36	7	5	1	1			100			4,984	4,784	200	1 00	275	70	218
37	5	1	1	1		W.	100			6,222	6,222		1 00	275	60	390
38	2						100			1,786	1,786		1 00	160	80	78
39	2						100			1,000	1,000		1 00	200	60	50
40	2						100			600	600		1 00	75		30
41	2						100			760	760		1 00	80		
42	20	36	3	3	1	M.	100	1	1	6,057	5,087	970	1 05	180	70	302
43	33	28	4	4			100			10,570	8,818	1,752	1 05	300	70	528
44	4	2				S. M.	100			1,284	1,284		1 00	180		46
45	3						100			240	240		1 00	75		15
46	5	2	1	1		M.	100			2,240	2,240		90	180	75	140
47	4					S. M.	100			1,200	1,200		85	100		60
48	39	17	3	2			100			4,000	4,000		1 00	5		200
49	16	7	1	1			100			4,280	4,280		85	175	70	268
50	102	112	14	14	2		100		1	48,800	42,000	6,800	1 10	300		120
51	4	1				W.	100			600	600		1 25	200	60	
52	3	1	1	1			100			1,000	1,000		1 25	125	50	
53	21	5	2	2		S. M.	100			2,000	2,000		90	70	60	100
54	1						100			40	40		1 25	25	60	2
55	7		1			W.	100			1,400	1,400		1 50	180		
56	8	1	1	1		S. M.	100			1,080	1,080		1 50	175		55
57	4	1	1	1			100			280	280		1 25	120		
58	6	1	1	1			100			1,000	1,000		1 25	175		
59	3						100			160	160		1 50	60		

*Peoria County—Second District—1896—Concluded.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
60	Wm. Poole.....	.. ..	.. ..	..	70 5.	16	Sl.	..	..	..
61	Henry Heinz.....	.. ..	.. ..	..	40 5.	.03	Sh.	..	..	..
62	Wm. Vaughn.....	Jubilee.....	Jub lee.....	..	80 3.	.04	D.	..	..	..
63	Robt. Taylor.....	Princeville.....	Princeville.....	..	16 5.	.15	Sh.	..	..	..
64	Joseph Crew.....	Chillicothe.....	Chillicothe.....	..	150 3.6	.25	Sl.	..	..	..
65	Wm. Dodsworth.....	Laura.....	Laura.....	..	20 4.	.85	D.	..	..	..
66	Wm. Scott.....	.....	.....	..	20 4.	.05	Sh.	..	..	..
Totals.....				..	..	..	107.09	..	..	..
Averages (18 mines).....				..	..	..	..	..	..	..

*Rock Island County—Second District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine, or both.
1	Black Diamond Coal Co....	Coal Valley...	Rock Island...	S.	50 3.6	1	Sh.	R. P.	H.	..
2	Banner Coal Co.....	.. ..	Coal Valley...	L.	50 3.6	2.22	Sl.	..	..	..
3	Bardsley & Lee.....	.. ..	.. ..	..	20 3.6	.06	Dr.	..	..	..
4	Robert Summerson.....	.. ..	.. ..	..	80 3.9	.25	Sl.	..	..	..
5	Wilkinson & Summerson ..	.. ..	.. ..	..	24 4	.12	Sh.	..	..	..
6	Zadoc Wynn.....	.. ..	.. ..	..	45 3	.34	..	..	..	..
7	B. K. Lewis.....	.. ..	.. ..	..	17 3	.02	..	..	..	..
8	James Sackville.....	.. ..	.. ..	..	52 3	.05	..	..	..	..
9	Hynd Coal Co.....	Loding.....	Loding.....	..	50 3.6	.45	..	..	..	..
10	Mrs. John Loding.....	.. ..	.. ..	..	20 3.6	.96	Sl.	..	..	..
11	Jamieson Coal Co.....	.. ..	.. ..	..	65 3.6	1.17	Sh.	..	..	..
12	Chas. Mangelson.....	Happy Hollow	Hampton.....	..	40 3.6	.95	Sl.	..	..	..
13	James M. Cook.....	.. ..	.. ..	..	75 3	.13	Sh.	..	..	..
14	Fred Von Ach.....	.. ..	.. ..	..	70 3.6	.17	..	..	..	..
15	Guckert Bros.....	Hampton.....	.. ..	..	56 4	.21	..	..	..	..
16	Wm. Parker & Son.....	Milan.....	Milan.....	..	53 3.6	.60	..	..	..	..
17	David Walsh.....	.. ..	.. ..	..	48 3.6	.63	..	..	..	..
18	Silvis & Silvis.....	Carbon Cliff..	Carbon Cliff..	..	65 4	1.14	Sl.	..	..	..
Totals (18 mines).....				..	..	..	9.57	..	..	..
Averages.....				..	..	..	..	..	..	..



## Peoria County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	Acci- dents.	PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Winter.	Summer.					Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
60	4	1	1	1	.....	S. M.	100	.....	520	520	.....	\$1 50	100	.....	.....
61	2	1	1	1	.....	.....	100	.....	160	160	.....	1 50	100	.....	.....
62	1	1	.....	.....	.....	.....	100	.....	125	125	.....	1 25	75	.....	.....
63	4	3	1	1	.....	.....	100	.....	624	624	.....	1 75	156	.....	.....
64	3	1	.....	.....	.....	M.	100	.....	942	942	.....	1 25	156	75	22
65	2	.....	.....	.....	.....	W.	100	.....	200	200	.....	1 25	100	.....	.....
66	3	1	.....	.....	.....	.....	100	.....	200	200	.....	1 50	95	60	.....
	1,073	673	107	92	6	.....	.....	.....	457,061	378,704	78,357	.....	.....	.....	19,236
								2 6				\$1 06	166		

## Rock Island County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent gross contents of pit-car for which miner receives pay.	Acci- dents.	Non-fatal.	PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Winter.	Summer.						Total number of tons of coal produced. All grades.	Total number of tons of lump coal pro-duced.	Total number of tons of other grades pro-duced.	Average value of lump coal at mine.	Number of days of ac-tual operation of mine	Cost of oil per gal-lon.	Kegs of powder used during the year.
1	12	6	1	1	S	M.	101	.....	.....	3,448	3,448	.....	\$1 50	196	.....	.....
2	31	4	3	1	.....	.....	100	.....	.....	2,000	2,000	.....	1 50	150	80 70	.....
3	2	.....	.....	.....	.....	M.	100	.....	.....	200	200	.....	1 25	60	.....	.....
4	6	.....	1	.....	.....	W.	100	.....	.....	1,221	1,221	.....	1 50	135	60	125
5	6	.....	1	.....	.....	.....	100	.....	.....	550	550	.....	1 50	75	.....	.....
6	5	1	1	1	.....	.....	100	1	.....	1,020	1,000	20	1 40	200	60	60
7	3	.....	.....	.....	S	M.	100	.....	.....	56	56	.....	1 40	50	60	.....
8	3	.....	1	.....	.....	W.	100	.....	.....	136	136	.....	1 50	65	60	1
9	7	2	1	1	S	M.	100	.....	.....	1,560	1,560	.....	1 50	250	.....	110
10	11	6	1	1	.....	.....	100	.....	.....	3,060	3,060	.....	1 50	180	.....	145
11	20	2	2	1	.....	W.	100	.....	.....	4,100	4,000	100	1 50	200	60	157
12	3	.....	.....	.....	.....	.....	100	.....	.....	160	160	.....	1 50	140	35	9
13	3	.....	1	.....	.....	.....	100	.....	.....	400	400	.....	1 50	90	.....	25
14	5	3	1	1	.....	.....	100	.....	.....	600	500	100	1 50	200	65	12
15	4	1	1	1	.....	.....	100	.....	.....	813	813	.....	1 50	180	.....	.....
16	7	.....	1	.....	.....	.....	100	.....	.....	2,000	2,000	.....	1 50	150	.....	125
17	9	2	2	1	.....	.....	100	.....	.....	2,200	2,200	.....	1 50	175	75	60
18	12	12	2	2	.....	M.	100	.....	.....	4,541	3,000	1,541	1 50	200	90	175
	148	39	20	11	.....	.....	.....	1	.....	34,065	32,304	1,761	.....	.....	.....	1,004
													\$1 16	145		



Stark County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Fatal.	Non fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	7		1			W.	100.			1,992	1,992		\$1 25	200		35
2	6		1	1			100.			1,800	1,800		1 50	200	\$0 60	40
3	2						100.			70	70		1 50	50		
4	4						100.			441	441		1 50	100	60	
5	5		1				100.			1,003	1,003		1 50	125	60	2
6	3						100.			1,200	1,200		1 25	150		
7	8	3	1	1			100.			1,000	1,000		1 37½	150	60	
8	4		1				100.			400	400		1 50	80		
9	5	1	1	1			100.			646	646		1 75	125		
10	6		1	1			100.			583	583		1 75	200		37
11	5	1	1	1			100.	1		1,720	1,720		1 50	200		100
12	5	1	1	1			100.			850	850		1 50	160		10
13	5	1	1	1			100.			1,768	1,768		1 25	200		45
14	1	1					100.			80	80		1 25	50		
15	1						100.			240	240		1 25	120		
16	4	1	1	1			100.			800	800		1 50	100		
17	5	2	1	1			100.			760	760		1 37½	150		
18	6	2	1	1			100.			1,520	1,520		1 75	200		72
19	3		1				100.			300	300		1 50	50		
20	2		1				100.			912	912		1 50	225		32
	88	19	16	10					1	18,085	18,085					375
													\$1 41	142		

Woodford County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.						SUPPLIES.	
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.	
	Winter.	Summer.	Winter.	Summer.													
1	259	209	40	40	25	M.	.85	1	4	100,000	85,000	15,000	\$1 25	200	60		
2	178	162	13	12	13	S. M.	.92	..	4	62,790	60,380	2,410	1 29	167	65	4	
	437	371	53	52	38	.....	.....	1	8	162,790	145,380	17,410	.....	.....	.....	4	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1.27	183	.....	.....	

## THIRD INSPECTION DISTRICT—1896.

*Mr. George A. Schilling, Secretary of the Bureau of Labor Statistics, Springfield, Illinois:*

SIR:—In compliance with section 12 of the General Mining Law, I herewith submit the first annual coal report for the third inspection district, as now existing, being the thirteenth annual report of the inspector of mines, and for the year ending July 1, 1896. The report contains the usual tabulated statement as gathered from the operators, together with my own.

The following is a summary:

Number of shipping mines.....	28
Number of local mines.....	182
Total number of mines.....	210
Number of new mines.....	28
Number of abandoned mines.....	25
Highest number of employes at one time.....	2,134
Highest number of miners employed during the winter.....	1,806
Lowest number of miners employed during the summer.....	1,002
Average number of employes for the year.....	1,687
Boys under 16 years of age employed under ground.....	44
Total number tons of coal produced.....	628,595
Total number tons of lump coal.....	524,411
Total number tons of other grades.....	104,184
Average value of lump coal per ton at the mines.....	\$1 05
Aggregate value of total product.....	\$880,211 00
Estimated number of acres mined.....	157.49
Total number of kegs of powder used.....	18,489
Average value per keg at the mine.....	\$1 80
Aggregate cost to miners.....	\$33,240 00
Average number of running days.....	157
Oil per gallon, 22-24 gravity.....	\$0 60—\$0 80
Earnings of miners, not including pay received for narrow or deficient work.....	\$360,764 00
Average earnings per man.....	\$257 00
Average price per ton for mining.....	\$0 69
Number of fatal accidents.....	4
Number of non-fatal accidents.....	10
Tons of coal per fatal accident.....	157,146
Number of employes per fatal accident.....	422
Number of employes per non-fatal accident.....	169
Tons of coal per non-fatal accident.....	62,858
Wives made widows.....	3
Children made fatherless.....	6
Time lost by non-fatal accidents—days.....	427
Number of dependents.....	11

A comparative table of gross production and aggregate value of the same counties for 1895 and 1896, showing an increase in production and a decrease in value, is here presented:

COUNTIES.	ALL GRADES.		Increase, 1896.	Decrease, 1896.	AGGREGATE VALUE.	
	1895.	1896.			1895.	1896.
Hancock.....	10,274	4,497		5,777	\$14,676	\$6,681
Schuyler.....	12,600	7,915		4,685	13,310	8,270
Fulton.....	468,792	516,359	47,567		400,467	434,898
McDonough.....	53,387	48,571		5,816	75,079	61,544
Warren.....	14,191	12,696		1,495	25,679	20,843
Knox.....	58,330	39,557		18,773	66,643	47,973
Total.....	617,574	628,505	47,567	36,546	595,819	580,211
Net increase.....			11,021			
Net decrease.....					15,637	

The increase in tonnage is due to Fulton county shipping mines. The local mines have fallen off nearly one-half in their output, with a general decline in prices.

*Improvements.*—The Whitebreast Fuel Company in their Dunfermline mine cleaned out the intake airway on the north side of that mine and re-timbered it for a distance of about 80 yards. This greatly improved the ventilation on that side of the shaft. The Maplewood Coal Company in their Farmington mine cleaned out the return airway of that mine for a distance of 60 yards and reversed the direction of the air current which greatly improved the ventilation.

The Astoria Coal and Mining Company put down a new air shaft to their Astoria mine which makes it one of the best ventilated mines in the district.

F. H. Williams, at his Norris mine, covered the building which incloses the fan and top air shaft with corrugated iron for the purpose of better protection of the employes in case of fire; the shaft was sunk under the old law, and is closely situated to the main shaft.

All of the new and abandoned mines are local with the exception of the Colchester Coal and Mining Company; they replaced their abandoned mine by a new one designed the same as the old and 450 yards east of it on the same track. The hoisting machinery, fan and tower are used at the new shaft under the same design.

Meredith Bros., Augusta, have replaced their abandoned mine with a new one designed the same as the old, and 400 to 500 yards southeast of their old one and the same distance from the railroad. They intend to deliver the product of the mine to the railroad flats by a tram road and horse. These two mines are in the shipping list, the rest of new or abandoned mines are in local trade, and as the coal crops to the surface in numerous places through the district, new mines are cheaply constructed and are of short duration.

*Labor Troubles.*—At the Norris mine, operated by D. H. Williams, a reduction of five cents per ton in the price of mining took effect on April 15. The miners would not concede the reduction and a strike followed which

affected about 80 men and lasted three weeks, when the operators terms were accepted and work resumed. This was five cents they received over and above the district price on account of the amount of dirt encountered in mining the seam.

*Fatal Accidents.*—October 14, 1895, George and James O'Hallarn, brothers, aged respectively 30 and 33 years, miners, were killed by falling roof in Canton Coal Company's mine, one mile west of Canton, Fulton county. At the time of the accident they were at work taking out the pillar in room 13, N. W. entry. On Saturday, the 12th, the foreman, H. C. Solenberger, was in their place, and told them to take no more coal off the pillar on which they were working, and apparently they had followed his advice, and came further out and fired two shots on the next pillar. On returning to work on Monday, they commenced to mine coal off the abandoned pillar, and between two and three o'clock James Dalton, another miner, went in to visit them. They were mining coal off to a horseback that run through the pillar and across the room. Dalton asked them how far they intended to take out the coal, to which James O'Hallarn replied they would be finished in about an hour. At that time they did not have any props set up under the roof where they were working. Some time after that a noise similar to the firing of a shot was heard coming from the direction of O'Hallarn's room, but no notice was taken. All the other miners went out at 4:45 p. m. by way of the escape shaft, their usual way of going out and into the mine. The O'Hallarn brothers not coming home as usual, the wife of James became alarmed, and at 11 p. m. notified Wm. Bell, a miner employed in the same mine, and he organized a searching party and went to the room where the brothers worked. There they found them buried under the fallen roof. The portion falling in measured 21x23 feet in area, and 9 inches in depth. The bodies were taken out by one o'clock in the morning. From the position under the fall, they had received some warning of their danger, and had attempted to escape. James' death was due to suffocation; George had his neck broken and skull fractured. On investigating the area falling in, there was but one prop under it. At this mine the roof is tolerably strong and the coal is blasted off the solid, and the props are kept as far back from the face as is consistent with safety. They were about to discontinue taking coal from that pillar, and it is evident that they had been trying to finish it with as few props as possible, but on account of the horseback there was a slip in the roof, and it gave way without much warning. No company hands were in the mine at the time, which accounts for the length of time before deceased were found. James left a widow and three children; George, a widow.

November 11, Daniel Murray, aged 20 years, single, driver, employed in the Whitebreast Fuel Co. mine "C," at Dunfermline, was so injured by loaded mine cars running on top of him while driving in the above mine, that he died three days later. At first his injuries were not thought to be serious. Deceased was, at the time of receiving his injuries, coming with a loaded trip of two cars out of the sixth east entry of main south. On this entry there is a slight grade in favor of the loads, which requires the service

of a sprag to control the momentum of the cars. He had just put in the sprag, and then jumped on the tail-chain, his usual place of riding, but this time the mule jerked about the time Murray jumped on the chain, and threw him out. He fell across the rails, the cars running over him crushed him internally, which resulted in his death on the 14th of November.

March 13, 1896, Andrew Lundeen, aged 40 years, a miner, employed mining coal in Hamilton Taylor's local mine, situated one and one-half miles east of Wataga, was fatally injured by falling slate. He died on the 17th of April. At the time he received his injuries he and his partner were running coal off a pillar in southeast entry, and had taken but one fall of it, about two feet deep, and the width of the pillar, 15 feet. Over this coal there is a draw slate between four and six inches thick, which either falls after the coal or is taken down, and in some instances is propped up. In this case, Lundeen and his partner were waiting to have all their loose coal loaded out before removing or securing the draw slate, and an hour previous to Lundeen receiving his injuries, the foreman, Mr. Roddell, was in the place and called their attention to the draw slate, which afterwards fell. The piece that fell measured 2 1-2x6 feet in area and 4 inches thick. It broke in two over his body, inflicting spinal injuries which resulted in death. He left a widow and three children.

*Non-Fatal Accidents*—November 7, 1895, George English, miner, aged 37 years, married, wife and three children, had his ankle dislocated by falling down Frank Burdick's local shaft, 28 feet, which is situated one mile west of Industry. At this mine the coal is hoisted by a horse clutch-windlass and hemp rope. On account of the shallowness of the seam the miners often come up the ladder, which is a vertical one in the hoist way, and hoist their own coal. This time Mr. English had done so and unclutching the windlass lowered his empty car to the bottom, and without making the windlass secure with the brake, or going into the mine by way of the ladder, started down by means of sliding the rope, which, of course, unwound to its end, jerking the staple out which held it fast to the windlass. He fell about 20 feet, landing on the cross head of the cage, dislocating his ankle and disabling him for 40 days.

November 8, 1895, George Hart, single, colored, miner, aged 36 years, was severely burned on the arms and body by an explosion of powder in his working room. He was mining coal in the Whitebreast Fuel Company's mine "C" at Dunfermline. At the time of receiving his injuries was charging a hole in the coal preparatory to putting off a blast. In drilling the hole, he encountered sulphur with his machine, and had to use a hand-drill to cut through, which left the hole at that point somewhat smaller than the other portion of it, and when he came to charging it the cartridge would not pass the small division of the hole, and being close on firing time he was in a hurry and took up the drill that he used in cutting through the sulphur and with the sharp end of it, proceeded to ram the cartridge in the hole. It ignited and burned him so severely that he could not return to work before the first of April.

December 11, 1895, George B. Clough, miner, aged 60 years, had his collar bone broken by a descending cage in the Norris mine, operated by D. H. Williams and located at Norris, Fulton county. On the morning of the above date, Mr. Clough had gone into the mine and having some tools on the opposite side of the bottom to where he worked, crossed over by way of the cage to get his picks. On returning he made a mistake and crossed under the cage that was coming down, and before he had time to pass the cage struck him. There were six men on the cage at the time, but the engineer felt that there was something in the way of the descending cage and stopped it before its weight had rested on Mr. Clough, thereby saving his life.

February 12, 1896, Morris Wilson, a miner, had his wrist dislocated while mining coal in George Essex mine, situated at Soperville, Knox county. At the time he received his injuries he was mining a standing shot, a portion of which gave way; he threw up his hand to stop it falling on him, and in the act had his hand dislocated at the wrist joint. He was unable to work for two months.

March 11, 1896, Thomas Cogswell, aged 24 years, miner, had his leg bruised by falling coal in Hamilton Taylor's mine,  $1\frac{1}{2}$  miles east of Wataga. At the time he received his injuries he was engaged in mining coal in the above mine, when a portion gave way, falling on his leg. He was unable to work for two weeks.

April 21, 1896, Henry Fullerton, aged 52 years, miner, had his ankle bruised by falling clay in the opening of a new drift for Thos. Caldwell, at Avon. Here the coal crops to the surface, and Mr. Fullerton was engaged helping Mr. Caldwell make a new drift, when a portion of the surface clay rolled down on Mr. Fullerton's ankle, bruising it so as to disable him for twenty-four days.

May 4, 1896, C. R. Monday, a miner, employed in the Farmington Coal Company's mine at Farmington, had his leg bruised by falling coal and slate. He was mining a standing shot, when a portion of it gave way and fell on his leg, injuring him. He was unable to work for fifteen days.

December 8, 1895, Edward Owens, aged 26 years, a driver employed in the Whitebreast Fuel Company's mine at Dunfermline, had his breast hurt. He was hauling a car loaded with mine timbers to the face, and was riding on the car, when he came to a low portion of the entry and was caught between the roof and the props on the car. He was unable to work for eight days.

June 1, 1896, Dyer Stofflebaum, a miner, employed in the Whitebreast Fuel Company's mine at Dunfermline, had his arm bruised by flying coal from a shot in his room. He was placing three shots at once, but after lighting the squibs of two of them and attempting the third, he began to think that he had better retreat to a place of safety, as there was danger in waiting too long to light the third shot; he retreated, not thinking that he had left any fire on the third shot, and after hearing two go off in his room, returned to light the third, but it went off before he reached the face, and some of the coal flying from it caught him, disabling one of his arms so that he was unable to work for eight days.



June 16, 1896, Wm. Rice, driver, aged 32 years, had his leg broken while driving a mule in the Maplewood Coal Company's mine at Farmington. He was hauling coal from the first parting to the bottom of the shaft, a distance of 700 feet. A double track is laid in the entry to within a short distance of the parting; two mules are required to haul the product of the mine over this road; one hauls two and the other three cars a trip. There is a slight grade against the loads, about 2 ft. in 100 ft. The mules follow one another with their trips; Rice was driving the two-car trip mule and was on the load this time, he had made a quick trip, returning to the inside parting, hitching to another trip and starting out again, when the rear car of the other mule's trip became uncoupled and ran back, meeting Rice; his mule got out of the way, but Rice was caught by the legs between the cars before he could escape. He was disabled for three months.

The following casualties, with appended schedules giving detailed information concerning the individual mines in each county comprised within this district, completes my report for the year ending July 1, 1896.

Respectfully,

ROBERT PICKETT,

*State Inspector of Mines, Third District.*

CANTON, ILL.

*Fatal Casualties—Third District—1896.*

Date.	Name.	Age.	Occupation.	Residence—Town	Name of Mine.	Married.	Single.	Children.	No. persons dependent.	Cause of Accident.
1895.										
October	14 Geo. O'Hallarn	30 Miner		Canton	Canton Coal Co.	1	3	4	4	Falling slate
"	14 James O'Hallarn	33				1	1	1	1	
November	11 Daniel Murray	20 Driver		Dunfermline	Whitebreast Fuel Co.	1	1	1	1	Crushed under pit cars
1896.										
March	13 Andrew Lundeen	40 Miner		Wataga	H. Taylor	1	3	4	4	Falling slate
					Total	3	1	6	9	

*Non-Fatal Casualties in and about Coal Mines in the Third District of Illinois, for the year ending July 1, 1896.*

Date.	Name.	Age.	Occupation.	Residence—Town.	Name of Mine.	Married.	Single.	Children.	No. persons dependent	Character of Injury and Cause of Accident.	Time lost—days.
1895.											
November	7 Geo. English.....	37	Miner.....	Industry.....	Frank Burdick.....	1	3		4	Ankle dislocated by fall'g down sh.	40
	8 Geo. Hart.....	36	"	Dunfermline.....	Whitebreast Fuel Co. ....	1	1			Arms & body burned by powder ex.	110
December	11 Geo. Clough.....	60	"	Canton.....	D. H. Williams.....	1			1	Collar bone broken by descend.cage	60
February	12 Morris Wilson.....	25	"	Soperville.....	G. W. Essex.....	1				Wrist dislocated by falling coal	60
March	13 Thomas Cogswell.....	24	"	Wataga.....	H. Taylor.....	1				Leg bruised by falling coal	12
June	1 Dyre Stoffelbaum.....	23	"	Dunfermline.....	Whitebreast Fuel Co. ....	1				Arm bruised by fly'g coal from shot	8
December	8 Edward Owens.....	26	Driver.....	"	"	1				Breast bruised between roof & car.	8
1896.											
May	4 C. R. Monday.....	65	Miner.....	Farmington.....	Farmington Coal Co. ....	1			1	Leg bruised by falling coal & slate.	15
June	16 Wm. Rice.....	32	Driver.....	"	Maplewood Coal Co. ....	1	1		2	Leg broken by pit car.....	90
April	21 Henry Fullerton.....	52	Miner.....	Avon.....	Thomas Caldwell.....	1	2		3	Ankle bruised by falling clay.....	24
	Totals.....					5	5	6	11		427

## Fullon County—Third District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	Shipping or local mine.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.					Long wall, or room and pillar.	Hand or machine mine or both.
					Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.			
1	Whitebreast Fuel Co., C....	Dunfermline..	Dunfermline..	Sh.	90 4.6	27		Sh.	P. R.	H.	
2	Carbon Coal Co.....	St. Davids....	St. Davids....		90 4.8	5					
3	Wm. Jordan.....			L.	35 4.8	6.31					
4	Abraham Bath.....			L.	20 4.10	.05		Dr.			
5	Leonard Snyder.....				20 4.10	.04					
6	Geer & Fair.....	Vermont.....	Vermont.....		20 4.10	.04					
7	S. A. L. Rencan.....	Bushnell.....	Bushnell.....		9.3	.17		Sl.			
8	Theodore Anderson.....	Marietta.....	Marietta.....		10.2	.12					
9	Nat. Brush.....				35 2.6	.20		Dr.			
10	Louis Huff.....				35 2.6	.04					
11	Foraker & Muney.....				35 2.6	.08					
12	Joseph Clark.....	N'w P'il'd pha	N'w P'il'd pha		40 2.4	.11					
13	James Peterson.....				40 2	.07					
14	John Shelkey.....				40 2	.02					
15	Peter Knittle.....				50 2	.01					
16	Wm. Ealy.....				50 2.6	.23					
17	James Foster.....				40 2.4	.10					
18	Theodore Punyrea.....	Fairview.....	Fairview.....		45 4	.07					
19	Samuel Parr.....				45 4	.11					
20	Peter Cleary.....				50 4	.08		Dr.			
21	John Fulmor.....				30 4	.04					
22	Wm. Brown.....				45 4	.06					
23	D. Marvell.....				25 4	.06					
24	John Abbadusky.....				60 4.6	.20					
25	R. E. Gould.....				45 4.4	.20					
26	H. Tompkins.....			Sh.	50 4.2	.08		Sl.			
27	S. A. Dray.....			L.	30 4.4	.06		Dr.			
28	Pat Mechan.....	Breeds.....	Breeds.....	Sh.	70 4.6	6		Sl.			
29	Wm. Sugget.....			L.	50 4.6	.03					
30	N. Peterson.....				45 4.6	.02		Dr.			
31	Cline & Son.....	London Mills.	London Mills.		35 3	.16		Sh.			
32	Astoria Coal and Mining Co.	Astoria.....	Astoria.....	Sh.	72 5.6	6.10					
33	W. W. Willo-k.....			L.	40 5.10	2.32					
34	James Diamond & Son.....				35 5	.42					
35	Thomas Whittles.....	Bernadotte.....	Bernadotte.....		30 2.4	.12		Dr.			
36	Schuyler Williams.....				25 2.4	.06					
37	Harvey Smith.....				30 2.4	.03					
38	Lewistown Coal Co.....	Lewistown....	Lewistown....	Sh.	70 2.6	1					
39	Turner Bros.....			L.	75 2.10	1		Sh.			
40	Leroy Casler.....				35 2.6	.10		Dr.			
41	Sydney Yokum.....				40 2.4	.10					
42	Frank Gray.....				45 2.4	.17					
43	Gencil Bros.....				45 2.4	.16					
44	Joseph Findley.....				40 2.4	.08					
45	Isaac Bath.....				45 2.4	.22					
46	R. Raddis & Son.....	Ipava.....	Ipava.....		30 5.6	.40					
47	Cline & Shaw.....	Fiatt.....	Galesburg.....	Sh.	34 4.6	1		Sl.			
48	Richard Bladgen.....	Leaman.....	Leaman.....		30 3	.12		Dr.			
49	W. G. Stoke.....				30 3	.20					
50	Sunday Creek Coal Co.....	Middle Grove.	Middle Grove.		106 4	14		Sh.			
51	Wm. Allen.....			L.	35 3.10	.14		Dr.			
52	John Bowser.....				35 3.10	.10					
53	L. S. Lopeman.....				35 4	.10					
54	Denis McCoy.....				35 3.10	.08					
55	James Kerr.....				65 3.6	.05		Sh.			
56	Able Dewitt.....				35 3.10	.07		Dr.			
57	D. H. Williams.....	Norris.....	Norris.....	Sh.	112 4.6	8					
58	Cyrus Walek.....			L.	45 4	.07		Dr.			
59	J. N. Tyler.....				45 4	.01					
60	Henry Bell.....				45 4	.04					
61	W. H. Rosebaum.....				45 4	.06					
62	Table Grove Coal Co.....	Table Grove..	Table Grove..		100 2	.31		Sh.			
63	Leonard Hoops.....				45 2	.10		Dr.			

## Fullon County, 1896 -Continued.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	Fatal.	Non-fatal.	PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Under ground.	Above ground.						Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
1	282	203	20	16	16	S. M.	75	1	3	137,614	104,112	33,502	\$0 95	162	\$0 60	4,603
2	119	73	10	9	9	..	75	..	..	28,509	20,190	8,319	1 95	172	60	955
3	79	59	10	10	6	..	75	..	..	36,364	26,285	10,079	1 00	115	60	1,280
4	1	1	..	..	..	W.	100	..	..	200	200	..	90	120	60	9
5	1	1	..	..	..	..	100	..	..	150	150	..	90	100	60	6
6	1	1	..	..	..	..	100	..	..	140	140	..	90	90	60	6
7	4	2	..	..	..	..	100	..	..	400	400	..	1 50	175	55	..
8	3	1	..	..	..	..	100	..	..	230	230	..	1 25	125	60	..
9	3	1	..	..	..	..	100	..	..	350	350	..	1 12 <sup>1</sup> / <sub>2</sub>	225	80	..
10	1	..	..	..	..	..	100	..	..	75	75	..	1 12 <sup>1</sup> / <sub>2</sub>	69	80	..
11	1	..	..	..	..	..	100	..	..	175	175	..	1 12 <sup>1</sup> / <sub>2</sub>	125	80	..
12	5	3	..	..	..	..	100	..	..	200	200	..	1 12 <sup>1</sup> / <sub>2</sub>	200	70	..
13	2	1	..	..	..	..	100	..	..	225	225	..	1 25	150	70	..
14	1	..	..	..	..	..	100	..	..	140	140	..	1 25	125	70	..
15	1	1	..	..	..	..	100	..	..	50	50	..	1 25	75	70	..
16	1	..	..	..	..	..	100	..	..	20	20	..	1 50	20	70	..
17	3	1	..	..	..	..	100	..	..	480	480	..	1 50	200	80	..
18	3	2	..	..	..	..	100	..	..	200	200	..	1 50	125	70	..
19	2	1	..	..	..	..	100	..	..	220	220	..	1 12 <sup>1</sup> / <sub>2</sub>	180	70	..
20	3	1	..	..	..	..	100	..	..	320	320	..	1 00	125	70	13
21	2	..	..	..	..	..	100	..	..	280	280	..	1 00	165	70	14
22	1	..	..	..	..	..	100	..	..	125	125	..	1 00	105	70	..
23	2	1	..	..	..	..	100	..	..	200	200	..	1 00	175	60	..
24	2	..	..	..	..	..	100	..	..	190	190	..	1 00	168	70	..
25	2	1	..	..	..	..	100	..	..	480	480	..	1 00	175	70	22
26	3	2	..	..	..	..	100	..	..	740	740	..	1 25	200	70	..
27	3	..	..	..	..	..	100	..	..	280	280	..	1 00	75	60	10
28	3	1	..	..	..	..	100	..	..	192	192	..	1 00	105	55	9
29	20	18	2	2	1	M.	100	..	..	23,100	23,000	100	90	175	60	600
30	1	1	..	..	..	W.	100	..	..	125	125	..	87 <sup>1</sup> / <sub>2</sub>	75	60	8
31	1	..	..	..	..	..	100	..	..	100	100	..	1 00	75	80	..
32	3	..	..	..	..	..	100	..	..	400	400	..	1 25	125	70	50
33	74	49	5	4	..	S. M.	75	..	..	800	800	..	1 50	150	60	20
34	4	1	1	..	..	W.	100	..	..	450	450	..	1 25	180	60	..
35	4	2	1	1	..	..	100	..	..	120	120	..	1 50	90	70	..
36	2	1	..	..	..	..	100	..	..	40,000	32,000	8,000	75	200	50	2,000
37	2	..	..	..	..	..	100	..	..	8,677	6,912	1,765	85	156	60	500
38	1	..	..	..	..	..	100	..	..	8,000	6,500	1,500	80	100	70	565
39	10	8	2	1	..	S. M.	80	..	..	14,029	14,029	..	1 12 <sup>1</sup> / <sub>2</sub>	290	60	550
40	8	4	2	1	..	W.	100	..	..	2,694	2,694	..	1 00	225	60	136
41	1	..	..	..	..	..	100	..	..	1,280	1,280	..	87 <sup>1</sup> / <sub>2</sub>	175	60	64
42	2	1	..	..	..	..	100	..	..	1,120	1,120	..	87 <sup>1</sup> / <sub>2</sub>	125	60	56
43	2	1	..	..	..	..	100	..	..	1,600	1,600	..	1 00	250	60	50
44	2	2	..	..	..	..	100	..	..	500	500	..	87 <sup>1</sup> / <sub>2</sub>	125	60	25
45	1	..	..	..	..	..	100	..	..	1,050	1,050	..	1 00	225	60	150
46	3	1	..	..	..	..	100	..	..	40	40	..	1 00	50	60	..
47	7	3	..	..	..	..	100	..	..	580	580	..	1 00	250	60	..
48	15	9	2	1	..	..	100	..	..	320	320	..	1 00	200	60	..
49	4	2	..	..	..	..	100	..	..	1,400	1,400	..	1 00	150	60	87
50	3	2	..	..	..	..	100	..	..	392	392	..	93 <sup>3</sup> / <sub>4</sub>	200	60	17
51	95	69	9	7	4	S. M.	80	..	..	480	480	..	93 <sup>3</sup> / <sub>4</sub>	300	60	24
52	3	1	..	..	..	W.	100	..	..	1,120	1,120	..	1 00	175	60	50
53	3	..	..	..	..	..	100	..	..	500	500	..	1 00	225	60	20
54	3	1	..	..	..	..	100	..	..	720	720	..	1 00	200	60	30
55	2	..	..	..	..	..	100	..	..	350	350	..	1 00	100	65	16
56	2	..	1	..	..	..	100	..	..	478	478	..	1 00	250	60	28
57	..	..	..	..	..	..	100	..	..	12,248	9,799	2,449	1 00	150	60	400
58	86	76	10	8	6	S. M.	67	..	1	13,268	13,268	..	90	250	70	367
59	1	1	..	..	..	W.	100	..	..	12,000	11,760	240	1 00	185	70	300
60	1	..	..	..	..	..	100	..	..	9,000	9,000	3,000	1 00	150	70	400
61	2	..	..	..	..	..	100	..	..	1,800	1,700	100	1 00	200	60	30
62	4	..	..	..	..	..	100	..	..	600	600	..	75	175	60	25
63	4	..	2	..	..	..	100	..	..	365	365	..	75	92	60	10
64	1	..	..	..	..	..	100	..	..	350	350	..	1 00	180	70	18

## Fulton County—Third District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
65	I. C. Pickering .....	Table Grove..	Table Grove..	L	30 5	.2	D.	P. R.	M.	
6	John Woodford .....	"	"	"	30 2.4	.22	"	"	"	"
6	Robt. Docherty .....	"	"	"	45 2.6	.06	Sl.	"	"	"
6	Maplewood Coal Co. ....	Farmington	Farmington	S	85 4.2	9	Sh.	"	"	"
6	Picton & Emons .....	"	"	"	67 4	2	"	"	"	"
7	Farmington Coal Co. ....	"	"	"	145 4	1 88	"	"	"	"
7	Canton Coal Co. ....	Canton.....	Canton.....	L	80 4.6	3.60	"	"	"	"
7	I. W. Stickler .....	"	"	"	60 4.6	.65	"	"	"	"
7	Oscar Waddell .....	"	"	"	40 4.6	.34	Sl.	"	"	"
7	Ies. Williams .....	"	"	"	40 4.6	.3	"	"	"	"
7	Wm. Whitham .....	"	"	"	60 5	.4	D.	"	"	"
7	Michael Timothy .....	"	"	"	40 5	.12	"	"	"	"
7	Gardner & Plenty .....	"	"	"	70 4.8	.27	Sh.	"	"	"
7	James Marten .....	"	"	"	25 4	.01	D.	"	"	"
7	Lafley & Lloyd .....	"	"	"	25 4	.16	"	"	"	"
8	Joseph Haywood .....	"	"	"	30 4.8	.08	"	"	"	"
8	Lewis Memmen .....	"	"	"	50 4.8	.34	"	"	"	"
8	W. B. Hughes .....	"	"	"	50 4.8	.09	"	"	"	"
8	Chas Seanlin .....	"	"	"	50 4.8	.12	"	"	"	"
8	P. Linden & Son .....	"	"	"	55 4.6	.3	"	"	"	"
8	Chas. Minnet .....	"	"	"	20 4.8	.13	Sl.	"	"	"
8	Chas. A. Saviele .....	"	"	"	40 5	.12	D.	"	"	"
8	Wm. Nevitt .....	"	"	"	20 4.8	.08	Sh.	"	"	"
8	Clark & Peterson .....	"	"	"	45 4.8	.12	"	"	"	"
8	Canton Union Coal Co. ....	"	"	S	50 4.8	2.34	Sl.	"	"	"
90	J. M. Laws .....	Cuba.....	Cuba.....	"	85 4.8	2.80	Sh.	"	"	"
91	Wm. Nicholson & Son .....	"	"	"	80 4.10	3.70	Sl.	"	"	"
92	Wm. Rutherford & Co. ....	"	"	"	60 4.8	2.23	Sh.	"	"	"
93	Bartlet & Bradley .....	"	"	"	50 4.8	.43	"	"	"	"
94	Bath & Phillips .....	"	"	L	25 4.8	.15	D.	"	"	"
95	John Hamilton .....	"	"	"	30 4.8	.0	"	"	"	"
96	Chas. Snyder .....	Banner.....	Banner.....	"	50 4.8	.08	"	"	"	"
Totals.....						113.84				
Averages.....										

## Fullon County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, low paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC- CI- D'Ts		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
65	2	1				W.	100			35,107	28,038	7,069	81 15	314	70	992
66	4						100			1,389	1,389		1 25	200	65	70
67	3	1					100			1,800	1,800		1 25	200	65	90
68	122	61	10	10	5	M.	80	1		240	240		1 25	125	70	
69	25	9	3				80			125	125		1 25	125	70	
70	25	20	6	1	12	S. M.	80			60	60		1 25	90	70	
71	27	20	3	3			190	2		2,536	1,636	900	1 15	200	60	25
72	10	1	1	1		W.	80			3,496	2,331	1,165	1 50	234	60	150
73	3						100			215	215		1 25	156	60	
74	3						100			200	200		1 25	175	60	
75	4	2		1		S. M.	100			350	350		1 25	185	60	
76	3					W.	100			320	320		1 25	175	60	
77	10	5	1	1	3	S. M.	100			175	175		1 25	125	60	
78	2	1				W.	100			450	375	75	1 25	120	60	
79	3						100			1,600	1,600		1 25	200		74
80	1	1					100			4,000	4,000		1 00	200	70	50
81	2						100			312	312		1 25	150	90	16
82	2						100			250	250		1 25	175	90	14
83	3						100			56,083	47,079	9,004	80	104	70	2,616
84	4						100			450	450		75	150	70	28
85	4						100			350	350		75	125	70	22
86	3	1					100			300	300		1 00	125	70	18
87	2						100			250	250		1 00	130	70	
88	3	1					100			125	125		1 00	65	70	
89	27	7	3	12		M.	100			200	200		75	100	75	12
90	23	21	3	3		S. M.	100			33,093	22,395	10,698	1 00	176	60	1,296
91	33	19	3	1			100			220	220		1 25	125	60	
92	24	16	3	3			100			20	20		1 25	25	50	
93	5	3					100			150	150		1 25	75	60	
94	3	2				W.	100			208	208		1 25	150	60	
95	1	1					100			520	520		2 00	100	65	
96	2	2					100			160	160		1 25	100	70	
..	1,304	802	119	86	51			3	6	516,359	418,394	97,965				18,952
..													\$0 954	153		

*Hancock County—Third District 1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Mercedeth Bros.....	Augusta.....	Augusta.....	Sh.	83	2.6	1.10	Sh.	L. W.	H.
2	P. Doyle.....	".....	".....	L.	20	.2	.22	"	P. R.	"
3	J. Hiland.....	".....	".....	"	25	.2	.12	Sl.	"	"
4	J. W. Marks.....	".....	".....	"	50	2.6	.22	Dr.	"	"
5	M. F. Ray.....	".....	".....	"	35	2.4	.27	Sl.	"	"
6	Samuel Jones.....	".....	".....	"	20	2.4	.14	Sh.	"	"
7	Chas. Eager.....	Golden.....	Golden.....	"	18	2	.39	"	"	"
Totals (7 mines).....							2.46			
Averages.....										



*Hancock County, 1896 - Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	Accidents.	PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.	Summer.	Winter.	Summer.					Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
1	14	6	1	1	W.	100	100	2,000	2,000	2,000	.....	\$1 37½	200	\$0 60	.....
2	4	12	.....	.....	.....	100	100	375	375	375	.....	1 25	190	60	.....
3	4	.....	.....	.....	.....	100	100	192	192	192	.....	1 50	90	60	.....
4	5	12	1	1	.....	100	100	480	480	480	.....	1 50	200	60	.....
5	5	.....	1	.....	.....	100	100	540	540	540	.....	1 50	140	60	.....
6	3	12	1	1	.....	100	100	350	350	350	.....	1 50	160	60	.....
7	6	12	1	1	.....	100	100	560	560	560	.....	2 00	225	60	.....
	41	14	5	4	.....	.....	.....	1,497	4,497	4,497	.....	.....	.....	.....	.....
					.....	.....	.....				.....	\$1 48½	172		.....

## Knox County- Third District 1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Bowman Bros.....	Yates City....	Yates City....	L.	50 4.6	.24	Sh.	P. R.	H.	
2	John F. Weir & Co.....	"	"	"	30 4.6	.16	Sl.	"	"	"
3	R. J. Marshall.....	"	"	"	40 4.6	.08	Sh.	"	"	"
4	Thomas Baxter.....	"	Farmington	"	32 4	.15	"	"	"	"
5	Lundeen & Sholcen.....	Knoxville	Knoxville	"	38 2.9	.50	"	"	"	"
6	M. R. Brown.....	"	"	"	18 2.6	.67	"	"	"	"
7	James Nelson.....	"	"	"	40 2.6	.16	"	"	"	"
8	Samuel Hopper.....	"	"	"	40 2.6	.16	"	"	"	"
9	Geo. Clifford, No. 1.....	Oneida.....	Oneida.....	"	45 4.6	.65	"	"	"	"
10	No. 2.....	"	"	"	45 4.6	"	Sl.	"	"	"
11	Wm. McGovern.....	"	"	"	20 4	.33	Sh.	"	"	"
12	Chas. Morgan.....	"	"	"	18 4	.07	Dr.	"	"	"
13	Andrew Anderson.....	Wataga.....	Wataga.....	"	20 4	.10	Sl.	"	"	"
14	C. G. Bangston & Bro.....	"	"	"	28 4	.15	Sh.	"	"	"
15	Wm. Estling.....	"	"	"	28 4	.10	Dr.	"	"	"
16	N. A. Anderson.....	"	"	"	50 4	1.20	"	"	"	"
17	H. Taylor.....	"	"	"	50 4	1.16	Sh.	"	"	"
18	James Taylor.....	"	"	"	38 4	.44	"	"	"	"
19	George W. Essex.....	Soperville.....	Soperville.....	"	113 4	2.50	"	"	"	"
20	Reed & Pendergast.....	"	"	"	93 4	.80	"	"	"	"
21	Ross & Woodward.....	"	Galesburg.....	"	50 1	1.10	"	"	"	"
22	Thomas Johnston.....	Victoria.....	Victoria.....	"	80 4	.30	"	"	"	"
23	David Grimm.....	"	"	"	50 4	.07	Dr.	"	"	"
24	A. Boyer.....	Etherly.....	Etherly.....	"	55 4	.10	"	"	"	"
25	Wm. Cotta.....	"	"	"	45 4	.04	Sl.	"	"	"
26	Edw. Peterson.....	"	"	"	50 4	.06	Dr.	"	"	"
27	J. W. England.....	Scotch Dig'ins	Appletown.....	"	30 4	.12	"	"	"	"
28	Eric Horkstrom.....	"	Knoxville.....	"	40 4	.12	Sl.	"	"	"
29	Wm. Fish.....	"	Appletown.....	"	35 4.4	.05	"	"	"	"
30	August Simpson.....	Soperville.....	Galesburg.....	"	50 3	2	Sh.	"	"	"
31	Geo. Richter.....	"	"	"	35 3	.12	Sl.	"	"	"
Totals (31 mines).....							11.90			
Averages.....										

*Knox County, 1896 - Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Wages, how paid. Weekly, semi-monthly or monthly.	Per cent gross contents of pit-car for which miner receives pay.	Accidents. Fatal. Non-fatal.	PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.										
1	5	1	2	1	W.	100	..	1,273	913	360	\$1 25	160	\$0 60	..
2	5	1	1	1	..	100	..	560	440	120	1 25	200	50	..
3	3	..	1	..	..	100	..	300	220	80	1 25	80	1 00	..
4	2	1	1	..	..	100	..	450	450	..	1 25	225	70	..
5	7	4	1	1	..	100	..	1,500	1,500	..	1 37 1/2	208	65	..
6	10	4	1	1	..	100	..	1,450	1,450	..	1 37 1/2	225	65	..
7	4	..	1	..	..	100	..	300	300	..	1 37 1/2	120	65	..
8	2	..	..	..	..	100	..	350	350	..	1 37 1/2	175	65	..
9	7	1	1	1	M.	100	..	2,000	2,000	..	1 50	200	70	..
10	7	1	1	..	..	100	..	..	..	..	..	200	70	..
11	13	2	..	..	W.	100	..	1,200	1,200	..	1 12 1/2	208	70	..
12	2	..	..	..	..	100	..	260	260	..	1 00	104	65	..
13	4	..	1	..	..	100	..	320	320	..	1 00	104	65	..
14	4	2	1	..	..	100	..	560	560	..	1 12 1/2	106	65	..
15	3	1	..	..	..	100	..	350	350	..	1 25	104	60	..
16	11	15	1	1	..	100	..	3,920	3,920	..	1 10	200	60	..
17	16	11	1	1	..	100	1 1	4,000	4,000	..	1 20	175	65	..
18	7	2	1	..	..	100	..	1,520	1,520	..	1 12 1/2	208	70	..
19	31	8	2	2	S-M	94	1	9,156	8,856	300	1 25	270	70	355
20	10	3	1	1	M.	100	..	2,720	2,720	..	1 25	200	60	40
21	12	6	2	1	W.	100	..	3,800	3,800	..	1 25	160	75	..
22	4	4	1	1	..	100	..	900	900	..	1 12 1/2	225	75	..
23	2	1	..	..	..	100	..	250	250	..	1 25	200	75	..
24	2	1	..	..	..	100	..	300	300	..	1 00	150	75	..
25	2	1	..	..	..	100	..	125	125	..	1 00	100	75	..
26	2	1	..	..	..	100	..	200	200	..	1 00	125	70	..
27	3	1	..	..	..	100	..	400	400	..	1 00	190	70	..
28	3	2	..	..	..	100	..	350	350	..	1 00	175	70	..
29	2	..	..	..	..	100	..	183	183	..	1 00	100	70	..
30	4	2	1	..	..	100	..	500	500	..	1 25	150	70	..
31	4	..	..	..	..	100	..	300	300	..	1 25	125	50	5
..	193	76	22	12	..	..	1 2	39,557	38,697	860	..	..	..	400
..	..	..	..	..	..	..	..	..	..	..	\$1 24	160	\$0 67	..

## McDonough County - Third District 1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post-office address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Quincy Coal Co. No. 36.....	Colchester....	Colchester....	Sh.	60 2.9	6	Sh.	R. P.	H.	
2	Colechester C. and M. Co., A.....	"	"	"	53 2.9	3.8	"	"	"	"
3	Egerton Coal Co. No. 3.....	"	"	"	53 2.6	1	"	"	"	"
4	Cowan & Cooper.....	"	"	L.	26 2.4	.40	"	"	"	"
5	L. H. Vest.....	"	"	"	43 2.6	.33	"	"	"	"
6	D. B. Sherlin.....	"	"	"	40 2.4	.54	"	"	"	"
7	Peter Whalen.....	"	"	"	25 2.4	.17	"	"	"	"
8	Wm. Robinson.....	Spring Creek.	"	"	35 2.4	.60	Sl.	"	"	"
9	Geo. Wakefield.....	Colchester....	"	"	50 1.8	.14	"	"	"	"
10	Lowery Bros.....	"	"	"	40 2.4	.09	"	"	"	"
11	A. Pierson.....	"	"	"	50 2.6	.02	Sh.	"	"	"
12	James Wayland.....	"	"	"	30 2.6	.12	D.	"	"	"
13	A. B. Wall.....	"	"	"	35 2.10	.02	"	"	"	"
14	John Zimmerman.....	Rag Town....	"	"	50 2.8	.20	"	"	"	"
15	Newman Foster.....	"	"	"	50 2	.20	Sh.	"	"	"
16	Thomas Kipling.....	"	"	"	50 2	.23	D.	"	"	"
17	Jacob Ryan.....	"	"	"	50 2.6	.50	"	"	"	"
18	Eli Hilliard.....	"	"	"	50 2	.10	"	"	"	"
19	Wm. Kipling.....	"	"	"	50 2.4	.12	"	"	"	"
20	Richard Laity.....	"	"	"	35 2.4	.10	"	"	"	"
21	John Hall.....	Colchester....	"	"	50 2	.05	"	"	"	"
22	Hiliary Bros.....	"	"	"	40 1.10	.52	"	"	"	"
23	Green Bros. & Kesler.....	"	"	"	40 2.6	.51	"	"	"	"
24	Arthur Godfrey.....	"	"	"	40 2.6	.37	"	"	"	"
25	Michael Humes.....	"	"	"	40 2.6	.13	"	"	"	"
26	Luke Stone.....	"	"	"	50 2.6	.01	"	"	"	"
27	W. H. Nees.....	"	"	"	50 2.4	.20	"	"	"	"
28	Amos Abben.....	"	"	"	50 2.4	.30	"	"	"	"
9	Ole Waddell.....	Tennessee....	Tennessee....	"	35 2.2	.20	"	"	"	"
30	Fergus Whalen.....	"	"	"	35 2.4	.22	"	"	"	"
31	Wm. Porter.....	Spring Creek.	Macomb.....	"	40 2.6	.60	Sh.	"	"	"
32	John Berry.....	"	"	"	20 2.6	.50	"	"	"	"
33	Michael Whalen.....	"	"	"	40 2.6	.34	Sl.	"	"	"
34	Curry Teal.....	Grind Stone..	Industry.....	"	40 2.4	.28	D.	"	"	"
35	W. H. Baker.....	"	"	"	30 2.6	.08	"	"	"	"
36	J. Gilligan.....	Industry.....	"	"	40 2.4	.12	"	"	"	"
37	Frank Burdick.....	"	"	"	30 2.4	.38	Sh.	"	"	"
38	Wilson & Foster.....	Blandinsville.	Blandinsville.	"	37 2.4	.46	"	"	"	"
39	Kirkbride Bros.....	Vermont.....	Vermont.....	"	60 2.8	.30	D.	"	"	"
40	J. C. Kirkbride.....	"	"	"	50 2.8	.18	"	"	"	"
41	Mitchell Bros.....	"	"	"	45 2.6	.11	"	"	"	"
42	D. W. Smith.....	Fandon.....	Fandon.....	"	45 2.4	.31	"	"	"	"
Totals (42 mines).....							20.85			
Averages.....										

McDonough County 1896 Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC- CIDENTS.	PRODUCTS AND VALUES.				SUPPLIES.	
	Winter.	Summer.	Winter.	Summer.					Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.
1	75	75	5	5	12	S. M.	80		16,495	14,020	2,475	\$1 40	155	\$0 70
2	29	29	3	3			80		8,960	7,616	1,344	1 40	128	
3	20	18	4	4			80		2,500	2,000	500	1 40	100	70
4	4	4	1	1		W.	100		800	800		1 25	200	70
5	6	6	1	1			100		700	700		1 50	200	70
6	4	4	1	1			100		1,100	1,100		1 50	200	70
7	9	9	1	1			100		350	350		1 37 <sup>1</sup> / <sub>2</sub>	125	70
8	2	2					100		1,200	1,200		1 25	225	70
9	3	3					100		200	200		1 50	125	70
10	3	3					100		175	175		1 25	175	70
11	1	1					100		40	40		1 25	80	70
12	4	4					100		240	240		1 12 <sup>1</sup> / <sub>2</sub>	130	70
13	1	1					100		40	40		1 12 <sup>1</sup> / <sub>2</sub>	35	80
14	4	4					100		400	400		1 50	125	70
15	2	2					100		320	320		1 37 <sup>1</sup> / <sub>2</sub>	200	60
16	2	2					100		400	400		1 37 <sup>1</sup> / <sub>2</sub>	200	70
17	2	2					100		1,000	1,000		1 50	175	70
18	1	1					100		160	160		1 37 <sup>1</sup> / <sub>2</sub>	100	65
19	4	4					100		240	240		1 50	90	70
20	1	1					100		220	220		1 37 <sup>1</sup> / <sub>2</sub>	150	70
21	2	2					100		60	60		1 12 <sup>1</sup> / <sub>2</sub>	80	70
22	2	2					100		750	750		1 25	200	70
23	2	2					100		1,100	1,100		1 12 <sup>1</sup> / <sub>2</sub>	250	70
24	3	3					100		800	800		1 25	220	70
25	3	3					100		250	250		1 25	200	70
26	2	2					100		48	48		1 25	30	70
27	3	3					100		400	400		1 37 <sup>1</sup> / <sub>2</sub>	150	70
28	2	2					100		600	600		1 25	225	65
29	1	1					100		350	350		1 25	150	70
30	4	2					100		450	450		1 25	200	70
31	10	2	1	1			100		1,200	1,200		1 37 <sup>1</sup> / <sub>2</sub>	280	70
32	5	2	1	1			100		1,000	1,000		1 25	250	65
33	5	2					100		720	720		1 25	200	70
34	4	2					100		480	480		1 37 <sup>1</sup> / <sub>2</sub>	200	70
35	2	2					100		160	160		1 50	100	70
36	4	2					100		300	300		1 50	125	70
37	4	2	1	1			100	1	750	750		1 50	250	70
38	3	3					100		920	920		1 65	250	70
39	3	2					100		643	643		1 75	124	58
40	3	1					100		400	400		1 50	150	60
41	2						100		250	250		1 12 <sup>1</sup> / <sub>2</sub>	150	60
42	4	2					100		650	650		1 25	200	70
..	284	177	19	17	2			1	47,821	43,502	4,319			
..												\$1 39	164	

*Schuyler County—Third District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	John Kerr.....	Rushville	Rushville	L.	48	4.6	.50	Sh.	P. R.	H.
2	Wm. Cummings.....	"	"	"	35	5	.45	D.	"	"
3	Wm. Demry.....	"	"	"	35	4	.11	Sl.	"	"
4	John Fry.....	Ray	Ray	Sh.	50	2.6	.26	D.	"	"
5	Abe Winner.....	"	"	"	50	2.6	.12	"	"	"
6	C. J. Chapman.....	"	"	"	50	2.6	.13	"	"	"
7	R. Porter.....	"	"	L.	45	5	.05	"	"	"
8	Henry Croxton.....	Pleasant View	Pleasant View	"	25	5	.11	"	"	"
9	Walter Croxton.....	"	"	"	25	5	.08	"	"	"
10	Hettrick & Wetmar.....	Frederick	Frederick	"	30	5	.30	"	"	"
11	Beardstown Coal Co.....	"	"	Sh.	40	2.6	.14	"	"	"
Totals (11 mines) .....										
Averages .....							2.25			

*Schuyler County, 1896* Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	Accidents.	PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Winter.	Summer.					Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
1	6	4	1	1	.....	W.	100	.....	2,000	2,000	.....	\$1 15	260	80 70	104
2	3	2	.....	.....	.....	.....	100	.....	1,920	1,280	640	1 12½	100	60	75
3	2	1	.....	.....	.....	.....	100	.....	350	350	.....	1 12½	125	60	18
4	6	.....	.....	.....	.....	.....	100	.....	375	375	.....	1 15	125	70	.....
5	4	.....	.....	.....	.....	.....	100	.....	265	265	.....	1 25	115	70	.....
6	4	.....	.....	.....	.....	.....	100	.....	400	400	.....	1 15	100	0	.....
7	.....	2	.....	.....	.....	.....	100	.....	80	80	.....	1 15	65	70	.....
8	.....	.....	.....	.....	.....	.....	100	.....	475	475	.....	1 00	125	70	7
9	2	.....	.....	.....	.....	.....	100	.....	350	350	.....	1 00	125	70	6
10	6	4	.....	.....	.....	M.	100	.....	1,200	1,200	.....	1 00	150	80	60
11	7	.....	.....	.....	.....	.....	100	.....	300	300	.....	1 25	90	80	20
									7,915	7,275	640	.....	.....	.....	290
									.....	.....	.....	\$1 13	125	.....	.....

## Warren County—Third District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	C. F. McCarney.....	Alexis .....	Alexis .....	L.	70 4.6	.50	D.	R.	P.	H.
2	John Sincock .....	" .....	" .....	"	40 1	.23	Sh.	"	"	"
3	Wm. Cook .....	" .....	" .....	"	50 4	.20	"	"	"	"
4	Gordon & Bush.....	Monmouth....	Monmouth....	"	55 2	.70	"	"	"	"
5	John Selkirk.....	" .....	" .....	"	53 2	.54	"	"	"	"
6	A. Y. Welsh.....	" .....	" .....	"	50 2	.07	D.	"	"	"
7	Harry Little.....	Roseville....	Roseville....	"	45 2.6	.25	Sh.	"	"	"
8	Bird & Lievrance .....	" .....	" .....	"	26 2	.53	Sl.	"	"	"
9	L. D. Carpenter.....	" .....	" .....	"	30 2	.07	"	"	"	"
10	Samuel White.....	Youngtown....	" .....	"	28 2	.20	Sh.	"	"	"
11	Thomas Wearmouth.....	" .....	Youngtown....	"	40 2	.12	Sl.	"	"	"
12	Joseph White.....	" .....	" .....	"	40 2	.14	D.	"	"	"
13	W. R. Thomas.....	" .....	" .....	"	40 1.10	.20	Sl.	"	"	"
14	Thomas Lee.....	" .....	" .....	"	50 2	.06	Sh.	"	"	"
15	John Booten.....	" .....	" .....	"	40 2	.10	Sl.	"	"	"
16	Joseph Simpson.....	" .....	Swan Creek ..	"	40 2	.05	"	"	"	"
17	Thomas Caldwell.....	Avon.....	Avon.....	"	40 2	.43	"	"	"	"
18	Willis Clayton.....	" .....	" .....	"	25 2	.30	"	"	"	"
19	Fred Nenacker.....	" .....	" .....	"	25 2	.34	"	"	"	"
20	Fred Steinaker.....	" .....	" .....	"	25 2	.05	D.	"	"	"
21	Cunningham & Fullerton...	" .....	" .....	"	35 2	.52	Sl.	"	"	"
22	Lafayette Smith.....	" .....	" .....	"	35 2.2	.40	D.	"	"	"
23	P. H. Tanney.....	" .....	" .....	"	40 2.4	.19	"	"	"	"
Total (23 mines).....						6.19				
Averages.....										



## Warren County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	Accidents.	PRODUCTS AND VALUES.			SUPPLIES.			
	Winter.	Under ground.	Summer.	Above ground.					Winter.	Summer.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.
1	6	5	2	1	.....	W.	90	.....	2,000	1,600	400	\$1 25	200	80	100
2	8	.....	1	.....	.....	.....	100	.....	800	800	.....	1 25	125	80	50
3	5	.....	1	.....	.....	.....	100	.....	650	650	.....	1 25	200	86	10
4	6	4	1	1	.....	.....	100	.....	1,200	1,200	.....	1 62 <sup>1</sup> / <sub>2</sub>	225	70	.....
5	5	2	1	1	.....	.....	100	.....	1,000	1,000	.....	1 62 <sup>1</sup> / <sub>2</sub>	200	70	.....
6	4	.....	.....	.....	.....	.....	100	.....	128	128	.....	1 75	120	70	.....
7	6	3	1	1	.....	.....	100	.....	573	573	.....	2 00	225	70	5
8	9	3	1	1	.....	.....	100	.....	981	981	.....	2 25	250	70	.....
9	2	1	.....	.....	.....	.....	100	.....	120	120	.....	2 00	125	70	.....
10	5	.....	1	.....	.....	.....	100	.....	200	200	.....	2 00	150	60	.....
11	4	1	.....	.....	.....	.....	100	.....	200	200	.....	1 75	225	90	.....
12	2	1	.....	.....	.....	.....	100	.....	240	240	.....	2 00	100	70	.....
13	3	1	.....	.....	.....	.....	100	.....	320	320	.....	1 87 <sup>1</sup> / <sub>2</sub>	165	70	.....
14	2	.....	.....	.....	.....	.....	100	.....	104	104	.....	2 00	125	70	.....
15	3	1	.....	.....	.....	.....	100	.....	180	180	.....	1 75	165	70	.....
16	1	1	.....	.....	.....	.....	100	.....	80	80	.....	1 75	200	70	.....
17	6	2	.....	.....	.....	.....	100	1	740	740	.....	1 75	200	60	.....
18	2	1	.....	.....	.....	.....	100	.....	500	500	.....	1 75	150	60	.....
19	6	2	.....	.....	.....	.....	100	.....	575	575	.....	1 75	175	60	.....
20	1	.....	.....	.....	.....	.....	100	.....	80	80	.....	1 75	95	60	.....
21	5	3	.....	.....	.....	.....	100	.....	900	900	.....	1 75	200	60	.....
22	4	2	.....	.....	.....	.....	100	.....	750	750	.....	1 75	225	60	.....
23	2	1	.....	.....	.....	.....	100	.....	375	375	.....	1 75	175	60	.....
..	95	34	9	5	1	.....	1	.....	12,696	12,296	400	.....	.....	.....	195
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1 67	177	.....	.....

## FOURTH INSPECTION DISTRICT—1896.

MR. GEO. A. SCHILLING.

*Secretary Bureau of Labor Statistics, Springfield, Ill.:*

SIR:—In compliance with section twelve of the Mining Law, I herewith submit the thirteenth annual report of the State Inspector of Mines, being the first report for the Fourth District as now constituted, and for the year ending July 1, 1896.

The report gives tabulated statements showing the number of mines in operation, both shipping and local; the number of tons of coal mined; number of accidents, fatal and non-fatal; number of miners employed, and the number of all other employes in and about the mines, including boys under sixteen years of age; the number of kegs of powder used; estimated number of acres of coal worked out during the year; the number of tons of coal produced to each accident, fatal and non-fatal; fatal and non-fatal accidents per each one thousand employes and the aggregate value of all coal mined and the prices paid for mining.

The following summary is for the fiscal year ending June 1, 1896:

Total number of mines.....	98
Total shipping mines.....	40
Total number of local mines.....	58
Highest number of miners employed.....	2,984
Other employes.....	993
Machine mine employes.....	455
Boys under sixteen years of age.....	61
Total employes in and around the mines.....	4,493
Total tons of coal mined—all grades.....	2,802,942
Total tons of lump coal.....	1,555,783
Other grades.....	1,247,159
Average price of lump coal at mines.....	\$0.8968
Aggregate value of total product.....	\$2,153,394.88
Average price paid for hand-mining (screened coal)—winter.....	\$0.5083
.....summer.....	\$0.4819
Number of fatal accidents.....	14
Number of non-fatal accidents.....	69
Tons of coal produced to each fatal accident.....	200,210
Tons of coal produced to each non-fatal accident.....	40,622
Fatal accidents to each one thousand employes.....	3.12
Non-fatal accidents to each one thousand employes.....	15.35
Estimated number of acres worked out.....	433.53
Kegs of powder used during the year.....	65,230

*New Mines*—Kelly Coal Company has opened their new Number 3 mine at Westville, Vermilion county, during the year. This mine is fitted up in first class shape and is intended for one of the largest in the State. It will be a machine mine and run by electricity.

Catlin Coal Company has opened a new mine near Catlin, Vermilion county. The shaft is 168 feet deep and on the Grape Creek vein; the machinery and buildings are of a substantial character, but the seam of coal has not come up to expectations.

Harvey and Blake have opened a new mine at East Peoria, Tazewell county. It is a well fitted up mine of its class, it being intended for the local trade.

Evans and Ragle have opened a new shaft three miles west of Danville, Vermilion county, on the Big Four railroad; the machinery and buildings at this shaft are light and not intended for a large output.

*Improvements.*—Kelly Coal Company, of Westville, Vermilion county, has erected a 20 foot fan at their Number 3 mine, with a 10x20 engine coupled direct to the fan shaft. Fan house and buildings are of a substantial character.

Westville Coal Company, Westville, Vermilion county, has sunk an air and escape shaft at their new mine; the opening is 7x15, inside of timbers 7x9, being used for an air-way upon which they have erected a 20 foot fan, with engine and building of the first class.

Catlin Coal Company have sunk an air and escape shaft at their new mine near Catlin, Vermilion county, but the buildings and machinery are not yet erected on it.

France Bros. have sunk an air shaft at their mine west of Catlin, Vermilion county, which places this mine among the best of its class in the local trade.

O'Connell & Hume have sunk an air and escape shaft at their mine on Grape Creek, Vermilion county, which adds greatly to the quantity of air and safety to the miners.

Glenburn Coal Company, of Glenburn, Vermilion county, has put in an endless rope haulage system; also added another air compressor to their mining plant; it is of the Norwalk pattern, and has a capacity of running twenty-four Harrison machines.

Rusche Bros. have sunk an air shaft at their mine at East Peoria, Tazewell county, which adds largely to the quantity of air in the mine.

*Prospective Mines.*—Pawnee Coal Company has sunk a new shaft on their property near Westville, Vermilion county. It is about 166 feet deep and the largest opening in this district; the shaft will be 10x19 feet inside of timber, and will be equipped in accordance with the size of the shaft.

Hawley Coal Company, of Pekin, Tazewell county, has abandoned its old shaft and commenced sinking a new one about half a mile south of the old workings.

Eastern Illinois Coal Company has commenced opening two mines on the Grape Creek property, which has been leased for a term of years.

*Fatal Accidents.*—July 15, 1895, Isaac Weaver, aged 44 years, employed by Consolidated Coal Company, at their Number 4 mine, Danville, Vermilion county, to attend the railroad coal chutes, in running a car of coal from the shaft to the chute, the car jumped the track. It had been raining that morning and the tippie was wet. The deceased took a piece of timber to use as a lever to lift the car on the track; it suddenly slipped and he fell off the tippie, a distance of eighteen feet; when he was found, his back was broken. He

was taken home, where he died on July 31. The grade rail at the place where he fell off had been broken for some time previous to the accident. He left a widow and six children.

✓ July 31, 1895, William Zarbrough, aged 27 years, employed as a loader by the Pawnee Coal Company, Westville, Vermilion county. The deceased went into a room—number 24, sixth south entry—about 1 o'clock p. m., and commenced loading coal, when a large fall of rock fell on him, killing him instantly. The room was not properly timbered, the nearest prop to the face of the coal being eighteen feet. It was one of a number of rooms in which the timbering and blasting was done by contract. The deceased was a single man.

✓ August 23, 1895, John Limburger, aged 50 years, miner, employed by the Chicago and Kansas City Coal Company at their mine in Petersburg. On the morning of the 23d of August, while being lowered into the mine, the engineer lost control of the engine, causing the cage to strike the bottom with such force that his knee was dislocated and the bone of his foot broken. He was removed to Springfield, where he died September 30. He left a widow and three children.

✓ October 14, 1895, Anton Alberto, miner, employed by Kelly Coal Company at their No. 2 mine, near Westville, Vermilion county. The deceased was 22 years of age and single. While loading coal in his room a piece of roof fell on him, knocking him backwards over loose coal, breaking his back, from which he died October 23.

✓ October 23, 1895, Joseph Davidson, aged 45 years, a miner, employed by D. P. Wilson at Grape Creek mine No. 4. He had been at work half an hour the morning of the accident; it occurred at the face of the fourth west entry, where a large piece of roof fell on him, killing him instantly. He left a widow and three children.

✓ November 30, 1895, Joseph McGere, aged 24 years, employed as a loader by the Pawnee Coal Company, Vermilion county, at the mine near Westville. The deceased went into room 38 on fourth south entry at about 11:30 a. m. to load coal, when a large piece of roof fell on him. He lived about one hour and fifteen minutes after being taken out. The room was not properly timbered; the rock swung the timbers that were under it and came down.

✓ January 24, 1896, Gustavus Berresse, aged 50 years, single, employed as a miner by the Kelly Coal Company, No. 2, near Westville, Vermilion county. The deceased was killed at the face of his room, while taking down coal, a large piece falling on him while in a stooping position, killing him instantly.

✓ January 26, 1896, James Lynch, aged 16 years, single, committed suicide by jumping down Muncie coal shaft. The deceased was sometimes employed as fireman at the boilers of the shaft. He left a note stating his intentions.

✓ January 31, 1896, Andrew Jackson (colored), miner, employed by the Pawnee Coal Company of Westville, Vermilion county, was instantly killed by fall of roof in room 38, eighth north entry. He had been repeatedly warned of the roof, but paid no attention to it. He was about 35 years of age, married, family unknown.

✓ February 29, 1896, John Kunrod, miner, aged 33 years, married, no children. The deceased and his partner were attempting to recharge a shot which had blown out with the first charge, but as soon as they got the second cartridge in the hole it exploded, inflicting injuries on him from which he died March 5; also injured his partner so that he lost three months time.

✓ March 30, 1896, Clark Hesten, driver, aged 26 years, married, employed by the Kelly Coal Company, No. 2 mine, near Westville, Vermilion county. The deceased was coming down a grade in the mine when the harness of the mule entangled the driver and dragged him under the wheels, where he was found fifteen or twenty minutes afterwards. He left a widow and two children.

✓ April 6, 1896, Allen Gordon, (colored), miner, aged 35 years, married, employed by Pawnee Coal Company at their mine near Westville, Vermilion county. The deceased and his partner had three shots to fire in room 35, fifth south entry; they put squibs in all three holes, two of which they lighted, and after the two had exploded they returned to light the third, but it exploded at about the time Gordon reached the place, killing him. He left a widow and two children.

/ April 20, 1896, Richard Sanders, miner, aged 38 years, single, employed by Delaware Coal Company as a miner at their mine near Grape Creek, Vermilion county. The deceased was at work on a bench of coal in the third south entry when a fall of roof came on him, knocking him backwards breaking his back and otherwise injuring him. He lived four days after the accident.

May 27, 1896, John Girginski, miner, aged 28 years, single. Deceased was employed by the Kelly Coal Company at their No. 3 mine, near Westville, Vermilion county, and at the time of the accident was working at the face of the second north entry, west side, when a fall of roof came on him, breaking his neck and killing him instantly.

The following tables give the detail of the fatal and non-fatal accidents.

*Fatal Casualties in and about Coal Mines in the Fourth District of Illinois for the Year ending July 1, 1896.*

Date.	Name.	Age	Occupation.	Residence—Town	Name of Mine.	Married	Widow	Children	Single	Persons dependent	Cause of Accident.
1895.											
July	15 Isaac Weaver.....	44	Chute tender.....	Tilton.....	Consolidated Coal Co.	1	1	6	7	Falling of tippie.	
Sept.	31 Wm. Zarbrough.....	27	Loader.....	Westville.....	Pawnee Coal Co.	1	1	1	1	Falling roof.	
Oct.	30 John Limburger.....	50	Miner.....	Petersburg.....	Chic., Kan. City C <sup>o</sup> Co.	1	1	3	4	Engineer allowed cage to run away.	
Oct.	4 Anton Alberto.....	22	".....	Kellyville.....	Kelly Coal Co.	1	1	1	1	Falling roof.	
Nov.	23 Joseph Davidson.....	43	".....	Grape Creek.....	No. 4 Grape Creek	1	1	3	4	"	
Nov.	30 Joseph McGere.....	24	Loader.....	Westville.....	Pawnee Coal Co.	1	1	1	1	"	
1896.											
Jan.	24 Gustavus Berreese.....	50	Miner.....	Kellyville.....	Kelly Coal Co.	1	1	1	1	"	"
"	26 James Lynch.....	16	Fir. man.....	Muncie.....	Muncie Coal Co.	1	1	1	1	Sa. side, jumping down shaft.	"
"	31 Andrew Jackson.....	35	Miner.....	Grape Creek.....	Pawnee Coal Co.	1	1	1	1	Falling roof.	"
Feb.	29 John Kunrod.....	33	".....	Kellyville.....	Kelly Coal Co.	1	1	1	1	Premature explosion of shot.	"
March	30 Clark Heston.....	26	Driver.....	Danville.....	"	1	1	2	3	Run over by pit cars.	"
April	6 Allen Gordon.....	35	Miner.....	Grape Creek.....	Pawnee Coal Co.	1	1	2	3	Premature explosion of shot.	"
April	20 Richard Sanders.....	38	".....	Kellyville.....	Delaware Coal Co.	1	1	1	1	Falling roof.	"
May	27 John Gergerski.....	28	".....	Kellyville.....	Kelly Coal Co.	1	1	1	1	"	"

*Recapitulation of Fatal Accidents.*

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Danville.....	1	Driver.....	1	Cage running away.....	1	Chicago & Kansas City Coal Co.	1
Grape Creek.....	4	fireman.....	1	Falling roof.....	8	Consolidated Coal Co.....	1
Kellyville.....	4	Loaders.....	2	Falling of tippie.....	1	Delaware Coal Co.....	1
Muncie.....	1	Miners.....	9	Premature explosion of shots.....	2	D. P. Wilson.....	1
Petersburg.....	1	Chute tender.....	1	Run over by pit-cars.....	1	Kelly Coal Co.....	5
Tipton.....	1			Suicide.....	1	Muncie Coal Co.....	1
Westville.....	2					Pawnee Coal Co.....	1
Totals.....	14		14		14		14

## Non-Fatal Casualties in and about Coal Mines in the Fourth District of Illinois, for the year ending July 1, 1896.

Date.	Name.	Age.	Occupation.	Residence— Town.	Name of Mine.	Married.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1895.										
July	13 H. Klotz.....	40	Miner.....	Kellyville.....	Kelly Coal Co. No. 2.	1	3	4	Leg hurt by falling coal.	14
"	17 Walter Royce.....	24	Driver.....	Grape Creek.....	Pawnee Coal Co.	1			Leg broken by pit cars.	90
"	23 John Focetts.....	27	Miner.....	Fairmount.....	Con. Coal Co.	1			Face and eyes injured by shot.	42
"	29 M. Stanton.....	45	"	Kellyville.....	Kelly Coal Co.	1			Head cut by falling roof.	7
Aug.	1 John Miller.....	38	"	Bloomington.....	McLean Coal Co.	1	3	4	Leg broken by falling roof.	120
"	3 Nick Farr.....	48	"	Kellyville.....	Kelly Coal Co.	1	2			180
"	12 Mike Canovan.....	25	Cager.....	Fairmount.....	Con. Coal Co.	1			Hand bruised by coal falling down shaft.	21
"	13 Mike Welsh.....	30	Driver.....	Bloomington.....	McLean Coal Co.	1			Bruised between pit cars.	20
"	23 Patrick Kelly.....	52	Miner.....	Petersburg.....	Chi.—Kansas City C. O.	1	6	7	Leg broken by being lowered into shaft too fast.	180
"	23 Adam Jenkins.....	25	"	"	"	1	1		"	180
"	23 George Nelson.....	27	"	"	"	1			"	210
"	23 John Ford.....	43	"	"	"	1			"	40
"	23 Oscar Burshime.....	22	"	"	"	1	1	2	Leg bruised	14
"	24 Peter Focetts.....	30	"	Fairmount.....	Con. Coal Co.	1			Leg bruised and nose broken by falling roof.	36
"	27 A. Mirrage.....	21	"	Kellyville.....	Kelly Coal Co.	1			Leg broken by falling roof.	60
"	1 Chas. Smith.....	30	"	Grape Creek.....	Pawnee Coal Co.	1	2	3	Bruised about head by falling roof.	10
Sept.	1 Chas. Hible.....	37	Timberman.....	Danville.....	Kelly Coal Co. No. 2.	1			Bruised about hips by falling roof.	10
Oct.	22 George Carroll.....	18	Driver.....	Danville.....	Decatur Coal Co.	1			Foot hurt by pit cars.	30
"	18 Chas. Capson.....	43	Miner.....	Danville.....	Pawnee Coal Co.	1	3	4	Back hurt by falling roof.	20
"	20 Thomas Sidelbottom.....	"	"	Danville.....	Rusche Bros.	1			Hips bruised by falling roof.	20
"	24 Joseph Rebholo.....	21	Driver.....	Danville.....	Con. Coal Co. No. 4.	1			Arm broken by pit car.	36
Nov.	5 Frank Cortul.....	65	Miner.....	Tilton.....	Kelly Coal Co.	1			Wrist sprained by pit cars.	14
"	11 John Wilson.....	24	Driver.....	Kellyville.....	Decatur Coal Co.	1	2	3	Shoulder hurt by falling roof.	35
"	25 Wm. Reich.....	31	Miner.....	Decatur.....	Kelly Coal Co.	1			Both legs hurt by falling roof.	45
"	4 Clayton Jones.....	20	"	Tilton.....	Con. Coal Co.	1			Leg hurt by falling roof.	30
Dec.	4 Rice Young.....	50	"	Petersburg.....	South Valley.....	1	3	4	Knee bruised by falling roof.	9
"	8 Geo. Langford.....	4	Topman.....	Fairmount.....	Langford & Hughes	1	3	4	Foot washed by falling coal.	23
"	10 Vint Ford.....	20	Driver.....	Fairmount.....	Con. Coal Co.	1			Leg broken by pit cars on top of shaft.	77
"									Body bruised by pit cars on top of shaft.	25
1896.										
Jan.	2 David Johnson.....	50	Miner.....	Athens.....	Walash Coal Co.	1	2	3	Burn by loose powder in his hand.	115
"	5 Edward Emory.....	41	"	Danville.....	Kelly Coal Co.	1	3	4	Foot mashed by falling roof.	14
"	14 Sherman Martin.....	30	Driver.....	Grape Creek.....	Pawnee Coal Co.	1			Hand mashed between pit cars.	30
"	16 George Shaw.....	28	"	Westville.....	Perry Jumps.....	1			Leg broken by pit cars.	75
"	18 Wm. Slowall.....	24	Miner.....	Grape Creek.....	Pawnee Coal Co.	1			Head cut by falling roof.	15
"	19 C. Cutchfield.....	42	"	Bloomington.....	McLean Coal Co.	1	4	5	Back hurt by falling roof.	24
"	19 James McVey.....	32	"	Tilton.....	McLean Coal Co.	1			Shoulder hurt by falling roof.	14
"	20 Claude Little.....	23	Driver.....	Wesley.....	Little Mine.....	1	1		Foot hurt by pit cars.	23
"	24 James Penn.....	42	Cager.....	Danville.....	Delaware.....	1			Leg bruised by cage.	45
"	26 Patrick Lawler.....	42	Miner.....	Danville.....	Delaware.....	1			Lost one eye by spark from pick.	63





*Recapitulation of Non-Fatal Accidents.*

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Kellyville.....	14	Driver.....	9	Falling coal.....	6	Kelly Coal Co.....	16
Grape Creek.....	8	Miner.....	52	Falling roof.....	38	Pawnee Coal Co.....	10
Fairmount.....	7	Top man.....	1	Pit cars.....	13	Consolidated Coal Co.....	13
Bloomington.....	6	Cager.....	2	Mining machine.....	1	McLean County Coal Co.....	6
Petersburg.....	7	Timber man.....	2	Powder.....	3	Chicago and Kansas City Coal Co.....	5
Niantic.....	1	Loader.....	1	Railroad cars.....	1	Glenburn Coal Co.....	3
East Peoria.....	3	Machine helper.....	1	Cages.....	1	Decatur Coal Co.....	3
Decatur.....	2	Laborer.....	1	Sulphur in eye.....	1	Delaware Coal Co.....	2
Tilton.....	3			While being lowered into shaft.....	5	Harvey & Blake.....	2
Danville.....	9					Perry Jumps.....	2
Chandlerville.....	1					Christ Nelson.....	1
Westville.....	3					South Valley Coal Co.....	1
Athens.....	1					Langford & Hughes.....	1
Wesley.....	1					Walsh Coal Co.....	1
Glenburn.....	3					Little Mine.....	1
						Carlin Coal Co.....	1
						Russell Bros.....	1
Totals.....	69		69		69		69

*Table Showing the Number of Persons Injured, Nature of Injury, Time Lost, with Average and Percentage.*

NATURE OF ACCIDENT.	Number.	Married.	Single.	Persons dependent.	Total days lost.	Average days.	Percentage of injuries.
Leg broken.....	12	6	6	22	1,352	112.65	17.39
Leg injured.....	2	4	4	9	234	29.25	11.59
Feet injured.....	11	6	5	22	359	32.6	15.94
Head injured.....	7	3	3	6	129	18.4	10.14
Body injured.....	5	4	1	8	130	26	7.25
Arms injured.....	1		1		63	63	1.45
Arms broken.....	1		1		36	36	1.45
Hip injured.....	4	1	3	4	160	40	5.8
Nose broken.....	1		1		36	36	1.45
Back injured.....	6	2	4	9	186	31	8.69
Ankles injured.....	1	1		4	21	21	1.45
Fingers lost.....	2	2		8	123	61.5	2.9
Eye lost.....	1		1		63	63	1.45
Wrist sprained.....	1		1		14	14	1.45
Shoulders injured.....	2	2		7	49	24.5	2.9
Face and eyes injured.....	3	1	2	3	240	80	4.35
Hands injured.....	3	2	1	3	54	18	4.35
Total.....	69	34	35	105	3,249	706.90	100

The county statistical tables follow, giving the record of each mine in the district.

Respectfully submitted,

HENRY E. MALLOY,

*State Mine Inspector, Fourth District, Danville, Illinois.*

*Cass County—Fourth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Klock & Harnesburk.....	Chandlerville	Chandlerville	L.	35	2.10	.26	Sh.	R., P.	H.
2	Christ Nelson.....			"	30	2.10	.30	"	"	"
3	J. S. & G. S. Russel.....	Ashland	Ashland	"	205	2.10	.60	"	L., W.	"
4	Virginia Coal Co.....	Virginia	Virginia	"	214	3.	1.50	"	"	"
Totals (4 mines).....							2.66			
Averages .....										

*Logan County—Fourth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine, or both.
1	Lincoln Coal Co.....	Lincoln	Lincoln	S.	272	5.4	15.	Sh.	R., P.	H.
2	Citizens' Coal Mining Co....			"	267	5.	15.20	"	"	"
3	Union Coal Mining Co.....	Mt. Pulaski...	Mt. Pulaski...	"	365	4.	3.50	"	"	"
Total (3 mines).....							33.70			
Averages .....										

*Cass County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC-CI-D'TS.		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.							Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.				Fatal.	Non-fatal.							
1	3	1	1	1	1	S. M.	100.	...	...	780	780	...	\$1 50	150	\$0 60	40
2	3	1	1	1	1	W.	100.	...	1	950	950	...	1 50	152	70	55
3	13	5	12	12	...	S. M.	100.	...	...	1,882	1,882	...	1 30	270	90	5
4	16	16	12	12	...	S. M.	100.	...	...	5,000	4,375	625	1 25	220	60	5
	35	23	6	6	1	...	...	...	1	8,612	7,987	625	...	...	...	105
													\$1 31	198		

*Logan County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC-CI-D'TS.		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.		
	Winter.	Summer.	Winter.	Summer.												
1	115	75	14	12	.....	S. M.	.....	.....	.....	75,000	75,000	.....	\$0 90	240	\$0 60	2,686
2	114	54	18	18	.....	W.	70.	.....	.....	77,000	66,000	11,000	1 00	250	60	3,000
3	34	24	7	7	.....	S. M.	100.	.....	.....	14,000	10,500	3,500	1 00	230	72	600
	263	153	39	37	4	.....	.....	.....	.....	166,000	151,500	14,500	.....	.....	.....	6,286
													\$0 95	250		

*Macon County—Fourth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Decatur Coal Co. No. 1.....	Decatur.....	Decatur.....	B.	612	4	11.40	Sh.	L. W.	H.
2	Decatur Coal Co. No. 2.....	.....	.....		614	4	10.40			
3	Decatur Coal Co.....	Niantic.....	Niantic.....	Sh.	365	5	8		R. P.	
Totals (3 mines).....							29.80			
Averages.....										

*Menard County—Fourth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Athens Mining Co.....	Athens.....	Athens.....	Sh.	200	6	14.60	Sh.	R. P.	B.
2	Wabash Coal Co.....	.....	.....		187	6	11.40			H.
3	Greenview C. and M. Co....	Greenview....	Greenview....		100	6	10.10			
4	Petersburg Co-op. Coal Co..	Petersburg....	Petersburg....		100	6	5			
5	South Valley Coal Co.....	.....	.....		70	6	3.16			
6	Chicago & Kansas C'y C. Co.	.....	.....		155	6	14			
7	Langford & Hughes.....	.....	.....	L.	75	5.6	.37			
8	William Denton.....	.....	.....		64	5.6	.10			
9	F. M. Miller.....	Tice.....	Tice.....		60	6	.60			
10	William Parkin.....	Sweet Water..	Sweet Water..		170	5.6	.50			
11	Tallula Coal Co.....	Tallula.....	Tallula.....	Sh.	185	5.6	1			
Totals (11 mines).....							60.83			
Averages.....										

## Macou County—1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC-CI-D'TS		PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Winter.	Summer.				Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Keels of powder used during the year.
1	155	110	8	4	4	W.	100	1	1	80,000	61,000	16,000	\$1 20	300	.....	.....
2	132	88	6	4	1	..	100	1	1	73,000	58,400	14,600	1 20	300	.....	.....
3	16	13	9	..	..	..	100	1	1	35,267	23,171	11,736	21	122	.....	1,465
..	370	214	27	14	6	.....	.....	3	3	188,267	145,871	42,336	.....	.....	.....	1,465
..	..	..	..	..	..	.....	.....	..	..	..	..	..	81 13.7	261	.....	.....

## Mcnead County—1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC-CI-D'TS		PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Winter.	Summer.				Fatal.	Non-fatal.	Total number of tons of coal produced, All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Keels of powder used during the year.
1	116	53	13	10	3	M.	100	..	..	88,883	71,276	17,607	80 70	164	80 60	1,081
2	142	66	8	8	4	..	75	..	1	57,066	38,044	19,022	70	162	50	1,869
3	81	62	11	11	..	..	66 <sup>2</sup> / <sub>3</sub>	..	1	61,305	50,031	11,274	84	240	65	1,660
4	29	19	5	3	..	..	100	..	..	30,000	22,500	1,500	85	260	60	600
5	24	14	4	3	..	..	100	..	1	19,000	19,000	..	80	248	50	831
6	122	57	12	12	2	..	100	1	5	76,395	62,620	13,775	71	191	60	3,000
7	3	1	1	1	..	W.	70	..	1	1,598	1,598	..	1 50	300	60	87
8	6	3	1	1	..	..	70	..	..	876	876	..	1 50	150	60	35
9	4	3	1	1	..	S. M.	100	..	..	3,690	3,690	..	1 25	195	60	30
10	8	6	2	1	..	M.	66 <sup>2</sup> / <sub>3</sub>	..	..	3,262	2,000	1,262	1 50	150	60	90
11	19	5	5	2	..	S. M.	70	..	..	5,270	4,856	414	1 05	156	80	244
..	557	315	63	53	9	.....	.....	1	8	347,345	276,491	70,854	.....	.....	.....	9,530
..	..	..	..	..	..	.....	.....	..	..	..	..	..	80 77.3	198	.....	.....

*McLean County—Fourth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post-office address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	McLean County Coal Co.	Bloomington.	Bloomington.	B	515 3&4	25.40	Sh.	L. W.	H.	
2	Colfax Coal and Mining Co.	Colfax	Colfax	B	400 5.6	4	**	P. R.	**	
3	Ferguson & Jones	Chenoa	Chenoa	L	275 4	1	**	L. W.	**	
Totals (3 mines)						30.40				
Averages										

*Tazewell County—Fourth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Hawley Coal Co.	South of Pekin	Pekin	S	81 4.4	2.33	Sh.	R. P.	H.	
2	Bohlender Bros.	Pekin	"	L	140 1.6	1.50	**	"	"	
3	L. Grant & Sons	"	"	"	100 4.8	2.80	**	"	"	
4	Hillard & Leonard	Wesley City	Peoria	S	90 4.4	2.80	**	"	"	
5	Wesley City Co-op. Coal Co.	"	"	"	190 4.4	.16	D.	"	"	
6	James Freer Co-op. Coal Co.	"	"	"	90 4.4	1.24	Sh.	"	"	
7	Rusche Bros.	East Peoria	East Peoria	L	125 4.4	1.75	D.	"	"	
8	Becker Bros.	"	"	"	63 4.4	.50	Sh.	"	"	
9	Reynolds & Co.	"	"	"	60 4.6	.50	Sh.	"	"	
10	Harvey & Blake	"	"	"	48 4.4	1.10	Sh.	"	"	
11	Beetler & Co.	"	"	"	85 4.6	.75	"	"	"	
12	East Peoria Coal Co.	"	"	S	90 4.6	1.75	Sh.	"	"	
13	Gustav Gebelhausen	"	"	L	90 4.6	.14	Sh.	"	"	
14	Deering & Bart	"	"	"	60 4.6	.17	"	"	"	
Totals (14 mines)										
Averages										



*McLean County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Winter.	Summer.	Winter.	Summer.				Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
1	310	167	25	20	.....	.....	100	..	6	127,000	87,000	40,000	\$1 10	300	.....	.....
2	44	28	10	8	.....	S. M.	100	..	..	25,891	18,964	6,327	1 06	1278	80 75	1,000
3	18	9	3	3	.....	.....	100	..	..	4,000	3,200	800	1 60	200	75	120
..	372	204	38	31	.....	.....	..	..	6	156,891	109,164	47,727	.....	.....	.....	1,120
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1.107	259	.....	.....

*Tazewell County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.				
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.		
1	26	26	3	3	.....	W.	80	.....	.....	9,810	8,175	1,635	80	80	208	80	80	360
2	12	8	1	1	.....	S. M.	70	.....	.....	6,200	6,200	.....	1 12½	175	80	270	.....	
3	25	11	2	1	.....	.....	70	.....	.....	13,995	13,995	.....	1 12½	200	80	570	.....	
4	55	39	4	4	.....	.....	100	.....	1	47,641	40,905	6,736	70	200	70	2,400	.....	
5	24	.....	2	.....	.....	.....	100	.....	.....	760	760	.....	70	25	60	38	.....	
6	22	.....	3	.....	.....	.....	100	.....	.....	4,780	3,187	1,593	70	60	70	180	.....	
7	11	16	1	1	.....	.....	70	.....	1	7,224	7,224	.....	1 05	225	70	363	.....	
8	7	2	1	1	.....	.....	70	.....	.....	2,092	1,977	115	1 00	225	60	104	.....	
9	12	4	2	1	.....	.....	70	.....	.....	3,407	3,407	.....	1 12½	200	70	185	.....	
10	17	6	2	1	.....	.....	100	.....	2	5,000	4,000	1,000	1 06¼	200	70	250	.....	
11	13	3	2	1	.....	W.	70	.....	.....	3,402	3,402	.....	1 06¼	230	70	190	.....	
12	13	13	2	2	.....	S. M.	100	.....	.....	7,812	5,656	2,156	85	190	75	360	.....	
13	6	2	2	1	.....	W.	70	.....	.....	618	606	12	1 12½	100	.....	43	.....	
14	4	2	1	1	.....	S. M.	75	.....	.....	800	650	150	1 12½	125	60	32	.....	
	247	132	28	18	6	.....	.....	.....	4	113,541	100,144	13,397	.....	.....	.....	5,345	.....	
						.....	.....	.....	.....				80 88	169	.....		.....	

## Vermilion County—Fourth District—1896.

PHYSICAL CHARACTER OF  
PLANT, SYSTEM OF WORKING,  
ACREAGE, ETC.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Consolidated Coal Co. No. 1	Tilton	Danville	Z.	85 5.6	24	Sh.	R. P.	H.	
2	John E. Lloyd	Danville		Z.	60 6		1.56	Sh.		
3	Economy Coal & Mining Co.				85 6		1.50	Sh.		
4	A. M. Bushon	Grape Creek			85 6.6		1.25	Dr.		
5	W. H. Jenkins	Danville		L.	34 6		.60			
6	E. S. Gray				55 6		.66	Sh.		
7	C. J. & W. Reilly	Grape Creek			80 7		.15	Dr.		
8	George Watts	Danville			40 6		.12			
9	C. J. Dobbins				8 6		.50	St.	L. W.	
10	Danville Brick & Tile Co.				14 6		.50			
11	D. P. Beatty				40 6		.10	Dr.	R. P.	
12	Elmer Allison				30 5.6		.09			
13	Sylvester Parle				100 5.6		.33			
14	Elisha Lloyd				33 6		.50	Sh.		
15	Ashman Bros.				50 6		.11	Dr.		
16	James Thomas				40 6		.25			
17	W. C. Wilkinson				45 6		.16			
18	William Taylor				50 6		.25			
19	John Mabecker				47 6		.38			
20	John Swanson				40 6		.12			
21	Louis Pichon				107 6		.52	Sh.		
22	Mauck Bros.				100 6		.21	Dr.		
23	William Ray				40 6		.12			
24	Joseph Kelly				40 6		.13			
25	Samuel Orr				50 6		.13			
26	Albert Widmer				50 6		.25			
27	Stanbury & Watkins				75 6		.60			
28	William Aldridge				13 6		.12	St.	L. W.	
29	Jones & Kline				50 6		.10	Dr.	R. P.	
30	John Aldridge				90 7		.16			
31	D. A. Jenkins				60 6		1.16			
32	Consolidated Coal Co.	Fairmount	Danville	Z.	208 5	17	Sh.	R. P.	H.	
33		Mission Field			18 5.9	16	St.	L. W.		
34	John Woodard		Oakwood	L.	60 5.6		.10		R. P.	
35	L. E. Baker				45 5.6		.33			
36	A. H. Bonnett	Pilot	Pilot		86 6		.50			
37	Muncie Coal Co.	Muncie	Muncie	Z.	200 5.4		1.34			
38	Catlin Coal Co.	Catlin	Catlin		168 6		4.51			
39	S. & M. France			L.	50 5.8		.60			
40	Warren Neil				60 5.6		.12	D.		
41	John F. Teeter				57 5.6		.11	Sh.		
42	Thomas J. Jones				51 6		.10			
43	Arthur Jones & Son				53 6		.30			
44	Evan Jones				60 5.6		.10	D.		
45	Thomas Graham	Georgetown	Georgetown		6 4		.06	St.	L. W.	
46	A. E. Lawell				7 4		.25			
47	Andrew Clifton				8 4		.25			
48	Bunting Bros.	Grape Creek	Grape Creek		50 7		.64	D.	R. P.	
49	D. P. Wilson			Z.	75 7		9.71	Sl.		
50	Perry Jumps, No. 1				60 7		2.10	D.		
51	No. 2				50 7		2			

Vermilion County, 1896—Continued.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Percent gross contents of pit-car for which miner receives pay.	AC- CIDENTS.		PRODUCTS AND VALUES.				SUPPLIES.				
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.		
	Winter.	Summer.	Winter.	Summer.														
1		186	161	20	17	3	S. M.	100	1	6	146,191	111,239	34,952	80	95	211		2,401
2		23	23	4	4		"	100			10,603	10,603		80		210	80	200
3		26	47	4	3		"	100			9,000	7,480	1,520	1 00	75	60	50	400
4		12	4	1	1		"	100			8,000	7,000	1,000	90	200	50	200	200
5		4	1				W.	67			3,900	3,900		1 00	200			20
6		6					"	66 <sup>2</sup> / <sub>3</sub>			1,000	3,000	1,000	1 00	260	50	80	80
7		12	12	1	1		S. M.	1,052			765	287	1 12 <sup>1</sup> / <sub>2</sub>	97	60	20	23	23
8				1			W.	70			700	700		1 00	100	50	25	25
9					10		"				3,000	3,000	1 12 <sup>1</sup> / <sub>2</sub>	180				
10					10		"				3,000	3,000		1 00	180			
11		3		1			S. M.	70			600	500	100	1 00	100	50	20	20
12		12				1	"	70			460	400	60	1 25	150	50	15	15
13		9	6	1	1		W.				2,000	1,500	500	1 00	160	60	75	75
14		6	3				S. M.				3,000	2,000	1,000	1 00	200	60	75	75
15		5					W.	75			851	638	213	1 12 <sup>1</sup> / <sub>2</sub>	100	60	24	24
16		4					S. M.	66 <sup>2</sup> / <sub>3</sub>			1,500	1,000	500	1 00	150	40	34	34
17		3					W.	70			1,000	700	300	1 00	150	40	30	30
18		3					"	64			1,526	976	550	1 12 <sup>1</sup> / <sub>2</sub>	200	40	50	50
19		3					"	64			2,292	1,467	825	1 12 <sup>1</sup> / <sub>2</sub>	240	40	93	93
20		3					"	83			720	600	120	1 00	120	40	20	20
21		3					S. M.	70			3,300	3,300		1 00	20	50	175	175
22		3					"	70			1,260	840	420	1 00	150	50	50	50
23		3					W.	70			500	500		1 25	140	50	15	15
24		2					"	62 <sup>1</sup> / <sub>2</sub>			800	500	300	1 00	150	40	20	20
25		4					"	70			800	800		1 00	125	40	20	20
26		7					"	70			1,500	1,500		1 00	150	40	40	40
27							"	100			3,750	3,000	750	1 25	300	60	120	120
28							"				800	800		1 00	90			
29		2					"	70			600	600		1 00	100	40	25	25
30		4					"	75			1,200	900	300	1 00	125	40	40	40
31		14	6	1	1		"	100			7,000	6,000	1,000	1 10	300	40	40	40
32		84	72	13	11		S. M.	100		7	86,236	73,089	13,147	85	156		3,508	3,508
33				200	200		"				161,580	147,922	13,658	80	275			
34		5		1			M.				600	500	100	1 00	60	30	15	15
35		4	4	1	1		W.				1,800	1,500	300	1 00	275	50	45	45
36		11		2			M.	80			3,000	2,500	500	1 25	125	50	150	150
37		32	15	4	2	1	S. M.	100	1		7,250	4,737	2,513	80	220	65	275	275
38		57	47	9	9		"	100		1	26,560	21,506	5,054	95	170	60	951	951
39		4	8	1	1	1	"	90			3,600	3,600		1 00	215	60	95	95
40		4					"				1,000	1,000		75	100	50	32	32
41		11	5	1	1		"	70			900	900		1 00	120	50	30	30
42		3	2	1	1		W.	70			625	600	25	1 00	100	50	25	25
43		3	2	1	1		"	70			2,060	2,060		90	200	60	85	85
44		2		1			S. M.	70			500	500		75	110	50	18	18
45						2	"				240	240		1 00	30			
46						2	M.				960	960		1 00	90			
47						2	"				1,000	1,000		1 00	90			
48		11	6	1	1		S. M.				4,458	3,344	1,114	95	268		95	95
49		81	84	5	5		"	100	1		68,000	60,000	8,000	80	240	60	2,500	2,500
50		26	26	2	2		"	100		1	13,000		13,000		200	60	433	433
51		21	21	2	2	1	"	100		1	12,000		12,000		200	60	400	400

## Vermilion County--Fourth District--1896--Concluded.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
52	Delaware Coal Co.....	Grape Creek	Danville.....	S.	40 6	12.50	D.	R.	P.	H.
53	O'Connell & Hume.....	"	Grape Creek	"	60 6.6	5.50	Sh.	"	"	"
54	C. M. Hay.....	"	"	"	50 6	1.12	Sl.	"	"	"
55	Kelly Coal Co., No. 1.....	"	Danville.....	"	86 7.6	16	Sh.	"	"	"
56	" No. 2.....	Westville.....	"	"	190 7.6	41.26	"	"	"	"
57	" No. 3.....	"	"	"	198 7.6	3.43	"	"	"	"
58	Pawnee Coal Co.....	"	"	"	100 7.6	46	"	"	"	B.
59	Westville Coal Co.....	"	Westville.....	"	210 7	21.60	"	"	"	M.
60	Glenburn Coal Co.....	Glenburn.....	Danville.....	"	150 5.6	24	"	"	"	"
Totals (60 mines).....						227.53				
Averages.....										

Vermilion County—1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.					Wages, how paid, Weekly, semi-monthly or monthly.	Per cent. gross contents of pit car for which miner receives pay.	AC- CIDENTS.		PRODUCTS AND VALUES.				SUPPLIES.			
	Under ground.	Above ground.	Winter.	Summer.	Number of boys under 16 years of age employed under ground.			Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.	
52	225	165	10	6	.....	S-M.	100	1	2	75,000	.....	75,000	.....	200	\$0 50	5,000	
53	36	36	4	4	.....	.....	100	.....	.....	38,204	.....	38,204	.....	255	60	1,275	
54	9	7	2	2	.....	.....	100	.....	.....	6,750	.....	5,800	\$0 85	200	60	1,175	
55	116	116	8	8	.....	.....	100	.....	.....	120,051	.....	181	.....	251	.....	1,000	
56	275	275	18	18	.....	.....	100	4	14	309,522	.....	67,000	242,522	80	266	1 00	6,000
57	99	99	8	8	.....	.....	100	1	2	25,772	.....	25,772	.....	150	.....	500	
58	248	248	20	20	.....	.....	100	4	10	342,982	.....	58,185	284,797	80	279	50	8,744
59	136	136	9	9	.....	.....	100	.....	.....	151,300	.....	133,144	18,156	80	245	.....	1,890
60	171	135	17	15	4	.....	100	.....	3	132,491	.....	132,491	.....	270	65	2,150	
..	2,027	1,793	395	395	35	.....	.....	13	47	1,822,346	764,626	1057720	.....	.....	.....	39,876	
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	175	.....	.....	

## FIFTH INSPECTION DISTRICT—1896.

*Mr. George A. Schilling, Secretary of the Bureau of Labor Statistics, Springfield, Illinois:*

SIR:—In accordance with section 12 of "An act providing for the health and safety of persons employed in coal mines," I have the honor to present the first annual report for the year ending July 1, 1896, of the Fifth district, as now defined by section II of the above act, as amended by the Thirty-ninth General Assembly, being the thirteenth annual report of the State Inspectors of mines.

The following is a summary of the tabular statements for all of the counties in the district:

Number of counties in the district.....	17
Number of counties in which coal is produced.....	10
Total number of mines.....	94
Total number of shipping mines.....	51
Total number of local mines.....	43
Total tons of all grades sold or consumed.....	4,689,990
Total tons of lump coal produced.....	3,199,961
Total tons of other grades.....	1,490,029
Total tons produced by hand mining.....	1,765,179
Total tons produced by machine mining.....	5,796
Total number of employes.....	5,758
Total number employed below ground.....	5,131
Total number employed on the surface.....	627
Boys under 16 years of age employed under ground.....	121
Number of fatal accidents.....	16
Number of non-fatal accidents.....	98
Number of tons produced to each person killed.....	293,124
Number of tons produced to each person injured.....	47,857
Number of persons killed per 1,000 employed.....	2.76
Number of persons injured per 1,000 employed.....	16.9
Number of persons employed to each person killed.....	362
Number of persons employed to each person injured.....	59

*New Mines.*—The Montgomery County Coal Company has recently sunk a shaft on the Cleveland, Cincinnati and St. Louis Railway, at DeWitt. At the depth of 534 feet a seam of coal eight feet thick was reached, which is probably No. 5 of the Illinois Geological Survey.

At the depth of 324 feet, a seam of coal seven feet six inches in thickness, probably No. 5 of the Illinois Geological Survey, was found in a shaft sunk by D. J. Lloyd, on the line of the Pawnee railroad, at Pawnee, Sangamon county.

*Developments.*—Work in two small seams found at 900 feet deep in the shaft of the Moweaqua Coal Mining and Manufacturing Company, at Moweaqua, has been abandoned, as the thickness of the seams and the price obtained for the coal did not justify further development. The working of No. 5 seam is continued, part of the coal being mined by machinery.

The Litchfield Mining and Power Company drilled a hole with a diamond drill from the bottom of the shaft, which was 535 feet deep, to a seam six feet 4 inches thick, which was found at the depth of 68 feet. The shaft has been sunk to the lower seam; the upper seam has been abandoned and the lower seam is now being developed.

The Chicago-Virden Coal Company has purchased the mine formerly owned by the Sugar Creek Coal Company at Auburn, Sangamon county.

*Ventilation*—A fan twenty feet in diameter has been erected at the mine of the Girard Coal Company, Girard, Macoupin county.

*Fires*—The entire top works and the timbering of the hoisting shaft at the mine of the Coffeen Coal and Copper Company, Coffeen, Montgomery county, were destroyed by fire during the night of November 5, 1895. One of the smokestacks set fire to the roof of the boiler house. When the fire started, the engineer had the pump installed for fire purposes apart, packing the water end, so the water service could not be used to extinguish the fire. The mine was idle until April 22, 1896.

The engine house and hoisting-department boiler house were destroyed and the hoisting engine damaged by a fire that started about 5 a. m. on March 6, 1896, at No. 6 mine of the Consolidated Coal Company of St. Louis, at Staunton, Macoupin county.

June 12, 1896, at about 8 o'clock, a fire started in the oilhouse, near the bottom of the hoisting shaft, of the Taylorville Coal Company, Taylorville, Christian county. The bottom timbers became ignited, then the fire was conveyed up the shaft to the top works, which were quickly destroyed. The damage consisted in the burning of the bottom timbers, which let down large masses of unbroken rock for some distance along both sides of the main roadway from the bottom of the shaft: the partial burning of the lining of the shaft, so that it had to be renewed throughout; the entire destruction of the mine buildings and coal-cleaning plant, and damage to the hoisting engine, air compressor and boilers. The rapidity with which the fire was communicated from the bottom to the top was somewhat surprising, as it is reported that there was very little inflammable oil in the oilhouse, and there was no more timbering about the bottom than the ordinary unlined sets that are placed where the roof and sides are fairly good: the shaft was wet, as there is a lodgement below the surface drainage that occasionally overflows, and the shaft was being used as the down cast at the time. The men in the mine left by way of the escapement shaft.

*Fatal Accidents*—John L. Dixon, aged 53 years, married, occupation mine manager, was killed at 9:10 a. m., July 9, 1895, at the mine of the Penwell Coal Mining Company, Pana, Christian county. He was standing near the elevator boot, removing an obstruction on the slide, when a railroad car partly filled with nut coal crushed him against a post of the elevator frame, causing instant death. There was a clearance of six inches between the car and the posts of the elevator. The car was being moved with a pinchbar. A man was talking to Mr. Dixon, and the sliding door of the elevator boot

being obstructed, his mind was probably occupied so that he did not notice the slowly moving car. He left a widow and five children.

✓ Allison Westbrook, aged 33 years, single, occupation eager, was killed at 4:20 p. m., July 19, 1895, at the mine of the Taylorville Coal Company, Taylorville, Christian county. The eager on the opposite side of the shaft was pushing a loaded car to the cage, when the corner of the car struck the upright corner rod of the cage. Westbrook immediately stepped on the cage and was pushing the car back, when, without any signal from the bottom, the cage started up, taking Mr. Westbrook with it, crushing him against the crown timber, causing instant death.

✓ Fred Stonebuerner, aged 28 years, married, left a widow and three children, occupation laborer, was asphyxiated by black damp on August 27, 1895, at the local mine of S. L. Flanders, Shelbyville, Shelby county. The mine is located near a brickyard operated by Flanders. The mine had not been operated for several months. Once a week the water was hoisted with a barrel. At the time of the accident, Stonebuerner and Flanders were at the top of the shaft. Stonebuerner was attending the gin and dumping the barrel. The barrel stuck in the sump. Stonebuerner slid down the rope, kicked the barrel to loosen it, and shouted to hoist up quickly, that the air was bad. When the barrel was hoisted a few feet, he fell back from it into the shaft and was suffocated. The shaft was sunk during the previous summer. It was thirty feet deep, and had no separate partitions for intake and return air. On inspection, a light was extinguished fifteen feet from the surface.

✓ David Evans, aged 22 years, single, occupation miner, was killed at 4 p. m., September 11, 1895, at Mine No. 1 of the Chicago-Virden Coal Company, Virden, Macoupin county. The shaft is 322 feet deep, and is equipped with self-dumping cages. He was being hoisted, with several others, when, at about sixty-five feet from the surface, he fell from the cage to the bottom of the shaft. At the surface, 11½ inches of vertical play was observed at the end of the platform of the cage from which he fell.

✓ Nicholas Lofy, aged 56 years, widower, left five children, one dependent, occupation miner, was killed at 5:05 p. m., September 24, 1895, at the mine of the Black Diamond Coal Company, Iles Junction, Sangamon county. He had fired two shots and was firing the third when an explosion occurred, killing him instantly. A miner who worked in the next room was showing him a light from behind a loaded car; he stated that when Mr. Lofy put his lamp to the squib that he did not leave it as soon as it ignited and that he apparently lighted the squib near the powder and not at the extreme end of the match.

✓ Walter Leyford, aged 19 years, single, occupation gripper, was injured at 10 a. m., September 28, 1895, at the mine of the Springside Coal Mining Company, Paura, Christian county, so that he died at 3 p. m. of the same day. He had taken off the grip and was letting the cars run by force of gravity down a light grade when he fell from the seat and the first car ran on him. On inspection a trip of cars was brought down the same grade; 32 feet before reaching the place where Leyford was picked up the gripper was severely shaken; the ball of both rails was broken in several places. It is evident that Leyford



was shaken off the seat and pushed by the cars to the place where he was found.

✓ Walter Russell, aged 18 years, single, occupation greaser, was suffocated by black damp at 7:15 a. m., at the mine of the Sangamon Coal Company, Springfield, Sangamon county. He left his work at the bottom of the shaft and went to the mouth of an old entry on the north side of the mine. As he did not return, one of the bottom men went after him and found him about eight feet in the entry. On inspection a light went out near the roof at about twelve feet and near the bottom at about eight feet in the entry.

✓ Fritz Immeroth, aged 55 years, left a widow and four children dependents, occupation loader, was killed at 4 p. m., December 7, 1895, by a fall of roof in mine No. 6 of the Consolidated Coal Company of St. Louis, at Staunton, Macoupin county. He was loading a car in the entry near a room that was being turned when a piece of slate fell, crushing him on the top of the car and causing instant death.

✓ Alfred Harvey, aged 53 years, occupation miner, left a widow. He was struck by a prop that was knocked out by falling coal at 12:30 p. m., December 19, 1895, in a room at the mine of the Penwell Coal Mining Company, Pana, Christian county, and died on December 21, 1895.

✓ Joseph Wallner, aged 23 years, single, occupation miner, was killed at 3 p. m., December 12, 1895, in mine No. 1 of the Pana Coal Company, Pana, Christian county. He was mining, when a piece of coal weighing about 1,500 pounds fell, crushing him so that he died instantly.

✓ James O'Neil, aged 51 years, widower, left five children, three of whom are dependent, occupation miner, was killed at 5:20 p. m., January 8, 1896, at the mine of the Green Ridge Coal Company, Girard, Macoupin county. O'Neil and his partner were about to light two shots in the room at the same time; O'Neil put his lamp to the squib and remarked that it would not light; he again put his lamp to the squib, when the shot immediately exploded.

✓ Wm. Dobbins, aged 25 years, married, occupation carpenter, was killed at 5 p. m., January 21, 1896, at the mine of D. J. Lloyd, Pawnee, Sangamon county. The top works were in course of construction; Dobbins was walking backwards on the upper landing carrying one end of a heavy plank: he went one step too far and fell to the ground, a distance of twenty-one feet. When picked up he was unconscious and remained so until he died, several hours later. He left a widow and one child.

✓ James Vancil, aged 47 years, married, miner, was killed at 1:10 p. m., February 26, 1896, in a room at the mine of the Sugar Creek Coal Company, Auburn, Sangamon county. At the time of the accident he was loading a pit-car, when a piece of top coal weighing about 1,000 pounds fell on him, killing him instantly. He left a widow and eight children, six of whom are dependents.

John Stevens, aged 60 years, married, miner, was injured at 5 p. m. March 6, 1896, in a room at the mine of the Cantrall Coöperative Coal Company, Cantrall, Sangamon county. Stevens was working in a room about four feet in, that was being turned from another room, at about twenty feet

back from the face. At the time of the accident the person working in the straight room and himself were each firing a shot. Stevens gave the word to fire and ignited the squib of his shot, which immediately exploded, causing injuries from which he died two days later. He left a widow and two children not dependents.

Nicholas Young, aged 51 years, married, was killed at 9:10 a. m. May 10, 1896, by falling down the air compartment of the hoisting shaft at the mine of the Starne's Coal Mining Company, Springfield, Sangamon county. A few days previous the escapement shaft had caved in near the bottom; the fan had been removed from the escapement shaft to a place near the hoisting shaft; a division of the hoisting shaft had been partitioned off for a temporary upcast and a boxing constructed for about thirty-five feet from the top of the partition to the fan. The escapement shaft had been repaired and the fan was being replaced near it. While an assistant was going for an ax Young walked through the boxing to the top of the hoisting shaft, where several men were suspending a cage. Their attention was attracted by a noise made by something falling down the compartment. On inspection it was found that the boxing was well lighted throughout, the fan having been removed from one end and a board from the other. It is supposed that being temporarily disengaged and taking an interest in all of the work then going on, he went through the boxing towards where the other men were working and in a moment of abstraction walked into the shaft. He left a widow and eight children.

James Boyden, aged 43 years, single, occupation topman, was killed about 2 p. m. Sunday, May 17, 1896, by falling down the shaft at the local mine of T. W. Griffiths, near Roodhouse, Greene county. He was engaged hoisting water; it was his duty to attend the gin horse and dump the barrel. At the time of the accident there was no one present at the mine. He was found dead at the bottom of the shaft.

The following tables gives the details of the fatal and non-fatal accidents and information in detail of the mines in coal-producing counties in this district.

Respectfully submitted,

JOHN KEAY,

*State Inspector of Mines Fifth District.*

Springfield, Ill.

## Fatal Casualties—Fifth District—1896.

Date.	Name.	Age.	Occupation.	Residence—Town	Name of Mine.	Married.	Children.	Single.	No. persons dependent.	Cause of Accident.
1895.										
July	9 John L. Dixon.....	53	Manager	Pana	Penwell C. M. Co.	1	1	5	6	Crushed by railroad cars.....
Aug.	20 Allison Westbrook.....	33	Cager	Taylorville	Taylorville Coal Co.	1	1	1	1	Cage started without bottom signal.....
Sept.	27 F. Stonebuerner.....	28	Laborer	Shelbyville	S. L. Flanders	1	1	3	4	Asphyxiated by black damp.....
"	14 David Evans.....	22	Miner	Virden	C. V. C. Co.	1	1	1	1	Fell from ascending cage.....
"	24 Nicholas Lofy.....	56	"	Springfield	Black D. C. Co.	1	5	1	1	Premature blast.....
Nov.	28 W. Leyford.....	19	Gripper	Pana	Springside C. Co.	1	1	1	1	Run over by pit cars.....
Dec.	7 F. Immeroth.....	18	Greaser	Springfield	Springamoon C. Co.	1	1	3	4	Asphyxiated by black damp.....
"	9 Alfred Harvey.....	53	Loader	Staunton	C. C. Co. No. 6	1	1	1	1	Fall of roof.....
"	12 Jos. Wallner.....	28	Miner	Pana	Penwell C. M. Co.	1	1	1	1	Struck by falling prop.....
1896.										
Jan.	8 James O'Neil.....	51	Miner	Girard	Pana C. Co. No. 1	1	5	1	3	Fall of coal.....
"	21 Wm. Dobbins.....	25	Miner	Paynes	Green Ridge C. Co.	1	1	1	2	Premature blast.....
Feb.	22 James V. A. cil.....	47	Miner	Auburn	D. J. Lloyd	1	1	1	7	Fell from lower landing.....
March	6 John Stevens.....	40	"	Cantrall	Sugar Creek C. Co.	1	1	8	1	Fall of coal.....
May	10 Nicholas Young.....	51	Blacksmith	Cantrall	Cantrall Co-op. C. Co.	1	1	2	7	Premature blast.....
"	17 James Boyden.....	43	Topman	Springfield	Starnes C. M. Co.	1	1	8	6	Fell down the shaft.....
"				Roodhouse	T. W. Griffiths	1	1	1	1	"
	Totals.....					10	8	40	6	34

## Non-Fatal Casualties in and about Coal Mines in the Fifth District of Illinois, for the year ending July 1, 1896.

Date.	Name.	Age.	Occupation.	Residence— Town.	Name of Mine.	Married.	Wife and children.	Single.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— Days.
1895.											
July	5 H. Hermans	35	Roadman	Staunton	Con. C. Co. No. 6	1	2	1	3	Foot bruised by pit car	14
"	24 T. Belweg	30	Loader	Mt. Olive	Con. C. Co. No. 8	1	1	1	3	Hand bruised by falling coal	6
"	24 A. Weg	24	Helper	Staunton	Con. C. Co. No. 6	1	1	1	3	Ear injured by nail	7
"	25 Henry Buescher	26	Mason	Mt. Olive	Con. C. Co. No. 8	1	4	1	5	Face burned by ballist metal	14
Aug.	3 John Krause	28	Blacksmith	Mt. Olive	Con. C. Co. No. 8	1	4	1	5	Coal fell off car on his fingers	7
"	3 Albert Baker	22	Carpenter	Pana	Penwell C. M. Co	1	1	1	1	Toe injured by tippie	18
"	8 Stephen Machots	19	Laborer	Staunton	Con. C. Co. No. 6	1	1	1	1	Rib broken by falling coal	14
"	9 Joseph Mal	22	Helper	"	"	1	1	1	1	Foot injured; stepped on nail	25
"	9 A. Schneider	16	Roadman	"	"	1	1	1	5	Foot bruised by falling coal	28
"	9 Ed. Parady	40	Helper	Mt. Olive	M. C. Co. No. 5	1	4	1	1	Foot injured by pit car	10
"	15 Adam Law	28	Carpenter	Pana	Penwell C. M. Co	1	1	1	1	Back bruised by falling roof	14
"	17 John Kudech	40	Driver	Mt. Olive	C. C. Co. No. 8	1	3	1	4	Body bruised; kicked by mule	9
"	23 Octave King	25	Loader	Staunton	C. C. Co. No. 6	1	1	1	1	Back injured by fall of roof	6
"	24 Adam Adams	32	Miner	Springfield	Starne s. C. M. Co.	1	2	1	3	Shoulder broken by fall of roof	50
"	30 Geo. Liles	35	"	Nilwood	N. C. C. Co.	1	1	1	7	Back injured by falling roof	34
Sept.	3 P. Beaublo-som	30	Laborer	Mt. Olive	Ch. V. C. Co.	1	6	1	3	Hand injured by falling roof	14
"	3 Paul Se nltz	28	Driver	Staunton	C. C. Co. No. 8	1	1	1	3	Hand injured by falling roof	8
"	7 Peter Schults	37	Loader	Gillespie	C. C. Co. No. 6	1	2	1	3	Collar bone broken by pit car	30
"	10 M. Rink	16	Driver	Mt. Olive	C. C. Co. No. 3	1	1	1	1	Leg broken by falling coal	39
"	14 Clyde Barnard	17	Helper	Gillespie	M. C. Co. No. 10	1	1	1	3	Arm bruised by falling roof	21
"	21 John Blakey	39	Miner	Assumption	A. C. C. & M. Co.	1	2	1	4	Leg broken by falling coal	139
"	21 John Rughlander	36	Trucklayer	Mt. Olive	C. C. Co. No. 5	1	3	1	9	Body injured by pit car	10
Oct.	3 John Brosche	39	Laborer	Mt. Olive	Ch. V. C. Co.	1	8	1	20	Finger cut off, coupling railroad cars	20
"	3 Chris. Kinn	26	Miner	Mt. Olive	M. C. Co. No. 5	1	1	1	2	Bruised by descending cage	31
"	4 Melvin Turner	26	Driver	Mt. Olive	Now. C. M. & M. Co	1	1	1	2	Knee injured by mine cars	51
"	8 V. Bishop	23	Miner	Virdeen	Ch. V. C. Co.	1	1	1	2	Arm broken by fall of coal	31
"	8 Jas. Gilmour	23	Driver	Mt. Olive	C. C. Co. No. 8	1	1	1	2	Collar bone broken by pit cars	30
"	10 Thos. Smith	28	Trapper	Virdeen	Ch. V. C. Co.	1	1	1	2	Body bruised by pit cars	8
"	11 Wm. Brower	16	Trapper	Mt. Olive	M. C. Co. No. 5	1	1	1	1	Leg broken by falling roof	90
"	11 Wm. McLean	26	Driver	Virdeen	Ch. V. C. Co.	1	1	1	6	Body bruised by pit cars	20
"	12 Henry Mull	47	Loader	Mt. Olive	C. C. Co. No. 8	1	5	1	6	Knee injured by falling coal	135
"	12 G. D. Worley	25	Driver	Gillespie	C. C. Co., Gillespie	1	1	1	7	Ankle broken by pit cars	53
"	15 Henry Hans	45	Loader	"	"	1	1	1	6	Leg injured by falling roof	125
"	17 H. Hiltner	45	"	Staunton	C. C. Co. No. 6	1	5	1	1	Ankles injured by falling roof	21
"	15 F. Goache	15	Gripper	"	"	1	1	1	1	Leg bruised by pit cars	6
"	21 C. McDaniel	18	"	Pana	Penwell C. M. Co	1	1	1	1	Finger broken by falling coal	18
"	26 Jno. Sturm	17	Helper	Staunton	C. C. Co. No. 6	1	1	1	1	Thigh injured by falling coal	60
"	28 J. Bauman	16	Gripper	"	"	1	1	1	1	Legs bruised by pit cars	14

Oct.	28	Wm. Lucas	22	Miner	Pana	Penwell C. M. Co.	1	1	1	Struck on knee by wedge.	11	
"	29	J. Hall	58	"	Litchfield	L. M. & M. Co.	1	4	5	Body bruised by falling roof.	30	
"	30	Chas. Smith	31	Loader	Mt. Olive	M. C. Co. No. 5	1	3	4	"	11	
"	30	E. Uhlman	18	"	Stanton	C. C. Co. No. 6	1	1	1	Leg broken by falling coal	25	
"	30	M. Krouser	16	Miner	Pana	S. C. M. Co.	1	1	1	Body bruised by falling roof	90	
Nov.	1	F. Myers	38	"	Stanton	Penwell C. M. Co.	1	1	1	2	Foot injured by falling coal	13
"	12	R. Bann	19	Loader	Dawson	C. C. Co. No. 6	1	1	1	Leg broken by falling coal	104	
"	13	C. Smith	22	Driver	Mt. Olive	Wabash C. Co.	1	1	1	1	Leg broken by pit car	60
"	16	G. Weylscap	28	Loader	Assumption	C. C. & M. Co.	1	1	1	Head hurt by falling coal	15	
"	19	Geo. Tully	50	Miner	Girard	C. C. & M. Co.	1	1	1	Body bruised by falling roof	10	
"	19	Wm. Stacy	20	Driver	Gillespie	Girard C. Co.	1	1	1	Body bruised by pit car	90	
"	20	Carol Rogers	25	Helper	Virten	C. C. Co.	1	1	1	Body bruised by falling roof	7	
"	21	L. Parker	22	Miner	Virten	M. C. Co.	1	1	1	Face cut by coal, returning to shift	7	
"	21	R. Roadawald	27	Driver	Mt. Olive	M. C. Co. No. 5	1	3	4	Leg bruised by mine car	7	
"	29	K. Farmer	23	Engineer	Stanton	C. C. Co. No. 6	1	1	1	Body injured by machinery	6	
Dec.	3	Jos. Herber	49	Carpenter	Hornshy	C. C. Co. Clyde	1	1	1	Body injured, falling from scaffold	30	
"	10	R. Kaufman	17	Driver	Mt. Olive	C. C. Co. No. 10	1	1	1	Leg bruised by pit cars	7	
"	24	B. Kelly	40	Miner	Litchfield	L. M. & M. Co.	1	1	1	Jaw broken, springing of prop.	15	
"	28	Aug. Isman	52	Loader	Mt. Olive	M. C. Co. No. 5	1	4	5	Leg broken by pit car	140	
"	31	H. Egman	16	Miner	Pana	Penwell C. M. Co.	1	1	1	Struck pick in his foot	10	
1886.												
Jan.	2	W. Acuncius	21	Laborer	Gillespie	C. C. Co.	1	1	1	Two fingers crushed, coupling railroad cars.	25	
"	5	John Beard	40	Miner	Pana	Penwell C. M. Co.	1	2	3	Iron pyrites in his eye	13	
"	7	Wm. Esforth	35	"	"	"	1	1	2	Thumb injured, unloading props	17	
"	11	Hy. Sudeck	29	Helper	Girard	Girard Coal Co.	1	1	1	Compound fracture of leg, falling roof	90	
"	15	Jos. Shipley	32	Driver	Springfield	Woods de C. Co.	1	1	1	Body bruised by falling roof	13	
"	16	Jas. Rolls	20	Timberman	Pana	Penwell C. M. Co.	1	1	1	Head bruised by falling roof	30	
"	16	Hy. Brown	24	Miner	Riverton	Riverton C. Co. No. 2	1	2	3	Body bruised by falling roof	6	
"	16	David Pierce	23	Driver	"	"	1	1	9	Toes injured by pit car	20	
"	27	Theo. Wildie	54	Loader	Mt. Olive	M. C. Co. No. 5	1	1	8	Foot bruised by falling coal	21	
"	27	A. Landreth	30	Miner	Pana	Springside C. M. Co.	1	1	1	Back bruised by falling coal	60	
"	31	J. Wickenheiser	26	"	Auburn	Sugar Creek C. Co.	1	1	9	Burned by powder, recharging hole	24	
Feb.	3	Lee Seiders	49	"	"	"	1	8	1	Wrist dislocated by pit cars	16	
"	7	O. Courtenay	16	Oilier	Mt. Olive	C. C. Co. No. 8	1	1	1	Body bruised by pit cars	15	
"	17	B. Koube	24	Driver	Riverton	Riverton C. Co. No. 2	1	1	1	Arm injured by pit cars	21	
"	18	Dan'l Hook	28	"	Spaulding	Clear Lake C. Co.	1	1	1	Back bruised by falling coal	17	
"	18	M. Rink	17	"	Mt. Olive	M. C. Co. No. 5	1	1	1	Foot bruised by falling coal	10	
"	20	E. Leecock	24	Miner	Pana	Springside C. M. Co.	1	1	1	Body bruised by pit cars	60	
"	24	W. Crosby	35	"	Virten	Ch. V. C. Co.	1	1	1	Leg bruised by falling coal	23	
"	27	Melvin Turner	26	Driver	Mt. Olive	M. C. Co. No. 5	1	1	1	Body bruised by falling roof	30	
Mar.	3	R. Santner	30	Cutter	"	"	1	1	1	Iron pyrites in eye	32	
"	3	D. Troglac	36	Loader	Springfield	West End C. Co.	1	1	1	Arm broken by falling coal	38	
"	4	Geo. Poston	35	Miner	Pana	Penwell C. M. Co.	1	1	1	Eye destroyed by piece of emery wheel	7	
"	9	D. Rhodes	53	"	"	"	1	1	1	Arm injured, coupling railroad cars	28	
"	12	E. Webb	58	Helper	Gillespie	C. C. Co.	1	1	1	Back bruised by fall of roof	14	
"	16	F. Nonark	35	Blacksmith	Pana	Penwell C. M. Co.	1	1	1	Leg injured, amputation necessary, falling roof	28	
"	20	H. Johnson	15	Laborer	Gillespie	C. C. Co.	1	1	1	Body bruised by falling roof	14	
"	25	H. Rayhill	22	Driver	Mowacqua	M. C. M. & Mfg. Co.	1	1	1	Shoulder bruised by falling roof	58	
"	27	A. Bowyer	32	Miner	Carlinville	Carlinville C. Co.	1	1	1	"		
Apr.	1	John Riddle	25	"	Girard	Green Ridge C. Co.	1	1	1	"		
"	20	Aug. Strawmeyer	28	"	Assumption	A. C. & M. Co.	1	1	1	"		
"	21	Geo. Marian	33	Driver	Mt. Olive	C. C. Co. N. 8	1	1	1	"		

## Non-Fatal Casualties—Fifth District—Concluded.

Date.	Name.	Age.	Occupation.	Residence— Town.	Name of Mine.	Married.	Single.	Children.	No. persons dependent	Character of Injury and Cause of Accident.	Time lost— days.
1896.											
May	1 S. Deboise.....	30	Roadman.....	Assumption.....	A. C. & M. Co.....	1	1	1	2	Foot injured by pit car.....	12
"	6 E. Burnett.....	19	Miner.....	Pana.....	Peywell C. M. Co.....					Struck with pick.....	17
"	15 R. Monnett.....	35	Laborer.....	Gillespie.....	C. C. Co., Gillespie.....	1	2	1	3	Arm broken, defective ladder.....	50
June	15 T. O'Meara.....	40	Miner.....	Viroen.....	Ch. V. C. Co.....					Body bruised by falling roof.....	30
"	2 Thos. Dunn.....	18	Driver.....	Mt. Olive.....	C. C. Co. No. 8.....				1	Finger broken, lifting prop.....	20
"	26 J. Meadawick.....	26	Laborer.....	".....	M. C. Co. No. 5.....				1	Body bruised by falling roof.....	21
"	27 A. Landreth.....	30	Miner.....	Pana.....	Springside C. M. Co.....	1	1	1	2		

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# STATISTICAL TABLES.

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FIFTH DISTRICT.

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*Calhoun County—Fifth District—1896.*

[illegible]

*Christian County—Fifth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Assumption C. & M. Co.....	Assumption ..	Assumption ..	S.	1003	3.6	12	S.	L. W.	H.
2	Edinburg Co-op. Coal Co.....	Edinburg.....	Edinburg.....	..	365	7	1	..	P. R.	..
3	Pana Coal Co., Nos. 1 and 2.	Pana .....	Pana .....	..	720	7.6	28	..	..	..
4	Penwell C. M. Co. ....	.. .....	.. .....	..	723	7	25	..	..	..
5	Springside C. M. Co. ....	.. .....	.. .....	..	723	7.6	14	..	..	..
6	Taylorville Coal Co. ....	Taylorville ..	Taylorville ..	..	462	7.6	28	..	..	M.
Totals.....				..	..	..	108	..	..	..
Averages .....				..	..	..	..	..	..	..



*Calhoun County 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	20	22	12	2	.....	M.	100	.	..	6,000	6,000	.....	\$1 35	300	\$0 90	500
.	20	22	12	2	.....	.....	.....	.	..	6,000	6,000	.....	.....	.....	.....	500
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1 35	390	.....	.....

*Christian County 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CIDENTS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	147	89	12	9	7	S. M.	70	..	4	58,176	42,318	15,858	\$1 10	225	\$0 70	100
2	18	7	6	3	.....	.....	.....	1	..	6,850	6,129	721	1 01	200	60	283
3	198	189	18	16	8	.....	.....	1	..	209,000	150,000	59,000	80	200	60	1,600
4	243	203	32	30	12	.....	100	2	13	176,492	63,918	112,574	75	180	Free.	1,250
5	230	150	14	12	5	.....	.....	1	4	101,000	45,000	56,000	64	150	.....	600
6	140	130	25	25	6	.....	.....	1	..	211,710	99,327	112,383	60	230	60	1,400
..	976	768	107	95	38	.....	.....	5	21	763,228	406,692	356,536	.....	.....	.....	5,233
.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	.....	.....	\$0 76	197	.....	.....



*Greene County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.		
	Winter.	Summer.	Winter.	Summer.												
1	5	4	1	1	.....	S.-M.	.....	.....	.....	2,400	2,400	.....	\$1 25	270	\$0 65	.....
2	12	.....	.....	.....	.....	.....	.....	.....	.....	150	150	.....	1 50	90	.....	.....
3	12	.....	.....	.....	.....	.....	.....	.....	.....	200	200	.....	1 50	70	.....	.....
4	6	3	1	.....	.....	.....	.....	.....	.....	1,000	1,000	.....	1 25	175	.....	.....
5	10	5	1	1	.....	M.	.....	1	.....	2,000	2,000	.....	1 25	200	80	150
6	4	.....	.....	.....	.....	W.	.....	.....	.....	200	200	.....	1 50	40	.....	.....
7	4	.....	.....	.....	.....	.....	.....	.....	.....	400	400	.....	1 50	70	.....	.....
8	10	3	1	1	.....	M.	.....	.....	.....	1,920	1,920	.....	1 25	175	80	.....
..	42	15	4	3	.....	.....	.....	1	.....	8,270	8,270	.....	.....	.....	.....	150
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1 39	175	.....	.....

*Macoupin County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.		
	Winter.	Summer.	Winter.	Summer.												
1	43	32	12	11	1	S.-M.	70	1	1	31,347	21,677	9,670	\$0 66	90	\$0 80	783
2	216	216	28	28	5	M.	.....	1	14	214,765	149,109	65,656	75	147	.....	1,315
3	104	104	13	13	.....	.....	.....	.....	.....	121,220	81,637	39,583	75	209	.....	687
4	178	178	21	21	.....	.....	.....	11	.....	308,234	211,432	96,802	75	245	.....	1,619
5	187	187	21	21	.....	.....	.....	3	.....	280,318	197,646	82,672	75	244	.....	1,561
6	117	117	20	20	.....	.....	.....	9	.....	111,100	78,577	32,523	85	195	.....	729
7	70	70	13	13	.....	.....	.....	1	.....	91,045	62,245	28,800	85	237	.....	602
8	252	235	28	27	10	S.-M.	64	1	8	348,333	222,651	125,682	65	242	65	9,163
9	3	.....	1	.....	.....	W.	100	.....	.....	450	.....	.....	1 25	80	.....	.....
10	106	71	10	10	3	S.-M.	.....	.....	.....	94,068	79,446	14,622	60	250	60	1,400
11	83	83	12	12	1	.....	60	1	1	87,925	48,738	39,187	65	250	70	2,450
12	1	.....	.....	.....	.....	.....	.....	.....	.....	100	100	.....	1 25	40	.....	.....
13	6	3	1	1	.....	W.	100	.....	.....	600	600	.....	1 20	100	.....	10
14	192	192	1	21	7	S.-M.	.....	.....	.....	316,550	236,119	80,431	60	232	.....	1,851
15	9	9	3	3	.....	W.	.....	.....	.....	4,169	3,549	620	1 25	200	.....	75
16	51	41	5	5	.....	S.-M.	100	.....	1	30,000	22,500	7,500	50	225	65	600
17	2	.....	.....	.....	.....	W.	100	.....	.....	150	150	.....	1 25	40	.....	.....
18	62	86	10	10	1	S.-M.	.....	.....	1	57,165	32,321	24,844	65	187	65	1,500
..	1,682	1,524	219	222	33	.....	.....	3	63	2,097,539	1,448,947	648,592	.....	.....	.....	24,405
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$0 702	178	.....	.....

*Montgomery County—Fifth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post-office address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Coffeen C. and C. Co.....	Coffeen.....	Coffeen.....	S.	534	8.0	5.0	Sh.	R. P.	H.
2	Hillsboro Coal Co.....	Hillsboro.....	Hillsboro.....	..	440	7.6	12.6	..	..	..
3	Litchfield M. and M. Co.....	Litchfield.....	Litchfield.....	..	500	3.6	2.5	..	L. W.	..
4	Litchfield Min'g & Power Co.....	.....	.....	..	684	6.3	2.0	..	R. P.	..
Totals.....				..	..	..	21.5	..	..	..
Averages.....				..	..	..	..	..	..	..

*Sangamon County—Fifth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Auburn Coal Co. and others	Auburn.....	Auburn.....	S.	268	7.6	1.1	Sh.	R. P.	H.
2	Chicago-Virden C. Co. No. 2	.....	.....	..	280	7.6	22.5	..	..	..
3	Barclay Coal and Mining Co	Barclay.....	Springfield.....	..	240	5.9	10.2	..	..	..
4	Cantrall Co-op. Coal Co.....	Cantrall.....	Cantrall.....	..	213	6.0	21.0	..	..	..
5	J. Murphy and others.....	Chatham.....	Chatham.....	..	253	7.0	1.6	..	..	..
6	Wabash Coal Co.....	Dawson.....	Dawson.....	..	259	5.4	10.0	..	..	..
7	Black Diamond C. & T. Co.	Iles' Junction	Iles' Junction	..	245	5.9	10.0	..	..	..
8	Springfield Junction C. Co.	..	..	..	250	5.6	9.5	..	..	..
9	Woodside Coal Co.....	..	..	..	250	5.6	10.0	..	..	..
10	D. J. Lloyd.....	Pawnee.....	Pawnee.....	..	324	7.0	.1	..	..	..
11	Springf'd & Pleasant P. C. Co	Pleasant P'tns	Pleasant P'tns	..	12	5.6	1.0	..	..	..
12	Clear Lake Co-op. Coal Co.	Riverton.....	Springfield.....	..	220	5.9	15.6	..	..	..
13	Riverton Coal Co. No. 1.....	..	Riverton.....	..	200	5.9	5.0	..	..	..
14	Riverton Coal Co. No. 2.....	..	..	..	232	5.9	18.0	..	..	..
15	Golladay & Brandt.....	Salisbury.....	Salisbury.....	L.	150	5.8	.2	..	..	..
16	W. Rutledge.....	Spaulding.....	Spaulding.....	S.	238	5.6	6.0	..	..	..
17	Capital Coal Co. No. 1.....	Springfield.....	Springfield.....	..	240	5.9	2.5	..	..	..
18	Capital Coal Co. No. 2.....	..	..	..	240	5.9	7.0	..	..	..
19	Citizens' Coal Mining Co.....	..	..	..	210	5.9	11.0	..	..	..
20	Sangamon Coal Co.....	..	..	..	265	5.9	19.0	..	..	..
21	Springfield Co-op. Coal Co.	..	..	..	250	5.9	5.5	..	..	..
22	Springfield C. M. & T. Co.	..	..	..	250	5.9	12.0	..	..	..
23	Starne's Coal Mining Co.....	..	..	..	230	5.8	14.0	..	..	..
24	Wilm. & Springf'd Coal Co.	..	..	..	245	5.9	16.0	..	..	..
25	West End Coal Co.....	..	..	..	150	5.8	7.0	..	..	..
26	Williamsville Coal Co.....	Williamsville.	Williamsville.	..	269	5.8	7.0	..	..	..
Total.....				..	..	..	242.2	..	..	..
Averages.....				..	..	..	..	..	..	..



*Shelby County—Fifth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Moweaqua C. M. and Mfg Co	Moweaqua...	Moweaqua...	S.	618	5.4	5.0	Sh.	R. P.	B.
2	M. Brophy.....	Shelbyville...	Shelbyville...	L.	90	3.3	8	"	"	H.
3	S. L. Flanders.....	"	"	"	42	3.3	"	"	"	"
4	Kearney Bros.....	"	"	"	42	3.3	3	"	"	"
5	John Richardson.....	"	"	"	100	3.2	3	"	"	"
6	Wm. Stonebuerner.....	"	"	"	22	3.2	"	"	"	"
7	B. F. Stretch.....	"	"	"	98	3.2	1.5	"	"	"
8	John Smith.....	Fancher.....	Fancher.....	"	21	3.2	"	D	"	"
9	Charles Michaelis.....	"	"	"	40	3.3	"	"	"	"
10	H. C. Gallagher & Son.....	"	"	"	30	3.2	1	Sh.	"	"
11	Wesley Cox.....	Robinson Crk	Robinson Crk	"	30	3.2	1	Sh.	"	"
12	John Stockdale.....	"	"	"	1	1.10	3	D.	"	"
13	J. H. Kensell.....	Neoga.....	Neoga.....	"	2	4	1	"	"	"
14	McLaughlin & Sullivan.....	"	"	"	2	4	1	"	"	"
15	George Steward.....	"	"	"	2	4	"	"	"	"
Total (15 mines).....							8.8			
Averages.....										

*Scott County—Fifth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	W. H. Bates & Co.....	Winchester...	Winchester...	S.	96	2.6	5	Sh.	R. P.	H.
2	Jesse Cameron.....	"	"	L.	32	4	1	D.	"	"
3	Jones & Robertson.....	"	"	"	32	4	1	"	"	"
4	Charles Ruh.....	Exeter.....	Exeter.....	"	18	4	1	Sh.	"	"
5	Charles McGuire.....	Alsey.....	Alsey.....	"	22	6	4	D.	"	"
6	M. Murphy.....	"	"	"	40	2.6	1	Sh.	"	"
Total (6 mines).....							5.9			
Averages.....										

*Shelby County—1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-D'TS		PRODUCTS AND VALUES.					SUPPLIES.		
	Under ground.		Above ground					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.	
	Winter.	Summer.	Winter.	Summer.													
1	108	55	10	10	1	S. M.	.....	.....	1	1	27,866	19,740	8,126	80 75	200	\$0 70	1,254
2	5	12	1	1	1	W.	.....	.....	.....	.....	1,600	1,600	10	150	150	80	.....
3	4	.....	1	.....	.....	.....	.....	.....	.....	.....	80	80	.....	00	25	.....	.....
4	4	.....	1	.....	.....	.....	.....	.....	.....	.....	750	750	.....	00	120	.....	.....
5	12	6	1	.....	.....	.....	.....	.....	.....	.....	800	800	.....	125	100	.....	.....
6	16	6	2	2	.....	.....	.....	.....	.....	.....	40	40	.....	150	15	.....	.....
7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,416	2,416	.....	150	160	.....	.....
8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	60	60	.....	150	45	.....	.....
9	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	60	60	.....	150	50	.....	.....
10	.....	.....	1	1	.....	.....	.....	.....	.....	.....	800	800	.....	175	100	60	.....
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	150	150	.....	150	60	.....	.....
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	250	250	.....	150	100	.....	.....
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	200	200	.....	150	60	90	6
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	150	150	.....	150	50	.....	.....
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75	75	.....	150	30	.....	.....
..	171	73	17	14	3	.....	.....	1	2	35,297	27,171	8,126	.....	.....	.....	.....	1,260
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1 079	110	.....	.....	.....

*Scott County—1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-D-TS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	35	35	5	5	3	S. M.	92½	..	..	15,800	15,300	500	\$1 20	300	\$0 70	665
2	32	1	..	..	..	..	..	..	..	250	250	..	1 50	70	..	..
3	32	..	..	..	..	..	..	..	..	500	500	..	1 25	90	..	..
4	32	..	..	..	..	..	..	..	..	400	400	..	1 50	90	..	..
5	..	12	..	..	..	..	..	..	..	1,200	1,200	..	1 25	180	..	..
6	1	..	..	..	..	..	..	..	..	260	260	..	1 50	120	..	..
..	50	38	5	5	3	..	..	..	..	18,410	17,910	500	..	..	..	665
..	..	..	..	..	..	..	..	..	..	..	..	..	\$1 20	160	..	..

## SIXTH INSPECTION DISTRICT—1896.

*Mr. Geo. A. Schilling, Secretary Bureau of Labor Statistics, Springfield, Ill.:*

SIR:—In compliance with section 12 of "An act providing for the health and safety of persons employed in coal mines," I have the honor to present the annual report for the Sixth Inspection District for the year ending July 1, 1896.

The following summary is for the fiscal year 1896:

Total number of mines.....	102
Shipping mines.....	74
Local mines.....	28
New mines.....	4
Abandoned mines.....	7
Estimated number of acres worked out.....	586.6
Number of miners employed during the winter.....	1,642
Number of miners employed during the summer.....	1,502
Others employed in and around the mines—winter.....	1,371
Others employed in and around the mines—summer.....	70
Boys under 16 employed underground.....	203.6
Total number of tons produced "all grades".....	3,676,164
Total tons of lump.....	2,888,372
Total tons of other grades.....	787,791
Number of fatal accidents to employes.....	4
Number of non-fatal accidents to employes.....	87
Number of non-fatal accidents to others not employed.....	4
Number of tons produced for each fatal accident.....	919,041
Number of tons produced for each non-fatal accident.....	40,397
Number of persons employed in machine mines.....	1,269
Number of kegs of powder used.....	77,320

*New Mines.*—In Madison county, John James has opened a local mine at Bethalto; Sam McDonald, one about two miles from Moro, and Kanter Bros., one about one and one-half miles east of Wan; all are gin pits.

In St. Clair county, Conrad Reeb has opened a mine about one and one-half miles south of Belleville; it is also a gin pit for local trade; the shaft is 100 feet deep and the thickness of the vein is six feet.

At Smithboro, Bond county, the shaft there was sunk to the lower vein, but it was found too thin to be profitable, so the working of it was abandoned, and work in the upper vein was resumed, which had been abandoned some time previous.

*Abandoned Mines.*—In Madison county, the mines of J. J. Maloy and W. H. Schaefer have been abandoned.

In St. Clair county, the Reinecke mine of the Consolidated Coal Company is abandoned, at least for the present; it has only been operated a few days during the year. Dutch Hollow mine belonging to the same company and



the Abend mine operated by Brosius Bros., have been permanently abandoned. The Lenzburg mine at Lenzburg, and the John Kloess mine at Belleville are also on the list of abandoned mines.

*Escapements.*—The Massie Coal Company has connected mines No. 1 and 2 which furnishes escapement for the former mine. Crown Coal & Tow Company has sunk an escapement shaft for their No. 4 mine, it is equipped with a horse gin and new cage.

The Consolidated Coal Company has sunk and equiped with gin and cage an escapement at White Oak, near Marissa.

Con. Reeb has sunk an escapement which is used for an air shaft for his new mine near Belleville. The Superior Coal Company is sinking an escapement for their mine at Kimmundy.

The Summit is nearly done with their shaft.

The Kolb Coal Company at Mascoutah is sinking an escapement for their mine and experiencing a great deal of trouble in getting through the sand.

*Fires.*—On September 23, 1895, the whole of the top works of the Mentor mine belonging to the Consolidated Coal Company was consumed by fire. The fire occurred a little after two o'clock in the morning; an engine had stopped for coal at the chutes, and the watchman assisted in coaling it up; immediately after, he discovered fire in the shaft tower, which in a few minutes was communicated to the engine and boiler houses, and in a short time was reduced to ashes. The engine and boiler houses were rebuilt of brick and work resumed November 4, 1895. It was supposed a spark from the engine was the cause of the fire.

On April 10, 1896, the engine and boiler houses of the Knecht mine belonging to the Consolidated Coal Company were burned to the ground. It was supposed that a spark from the smoke stack set fire to the weeds and grass adjacent to the pit. The topmen fought the fire and believed they had put it out; sufficient care had not been taken, however, as some sparks had been left unnoticed near the back of the engine house, where there was considerable combustible material; the fire broke out at this point and in a few moments the engine house was in flames, the fire beyond control, and a short time sufficed to complete the destruction of engine and boiler houses. The men were at work in the mine at the time, and although there were four separate openings to the mine, none of them were equipped as an escapement, and the men had to be hoisted from the mine at first, by means of a windlass which proved to be too slow; then most of them were hoisted up by the men pulling on a rope over a pulley; there were 31 but all arrived on top safely.

Dutch Hollow mine which was leased by the company used to be the escapement for the mines when it was running, but, having been abandoned it left them without an equipped escapement. The company had been notified and had taken steps towards having an escapement, but the fire caught them before they had one equipped. The buildings destroyed by the fire have been rebuilt and the escapement shaft properly equipped.

On May 4, 1896, about 11 p. m., a fire took place at the bottom of the John James mine, Bethalto, badly burning the timber of the shaft. The fire

caught from the furnace at the bottom of the shaft used for ventilating the mine: it was subdued by covering the shaft over with plank and then with dirt to exclude the air; when opened a day or two after, the fire was found to be extinguished and the damage not very great.

*Improvements*—The Gartside or Branch mine has been partly retimbered, also the Knecht, Brookside and Troy mines, all belonging to the Consolidated Coal Company. While retimbering the latter mine, quite an accident happened. It was left over night temporarily supported and during the night there was an exceedingly heavy rainstorm, which washed the drift from behind the timbers, where there was an opening left below; as a result the timbering gave way and allowed the shaft to cave in, making a hole 36x42 around the top, taking in pithead frame and shaker engine house, which all went down the shaft. This happened the 18th of May, and the bottom was not reached again until 1st of July. The damage has been repaired; it probably amounted to five thousand dollars.

The Enterprise mine at Rentchler has been retimbered.

Revolving screens, bins and elevators have been erected at Walnut Valley mine, Belleville, and at the Kolb mine, Mascoutah; at the former mine the pithead frame has been repaired.

Fans eight feet in diameter have been erected at the following mines in St. Clair county: Massie Coal Company Number 1, Belleville; Summit Coal Company, Birkner, and at the Dietrich mine, near Freeburg.

At the Marissa mine, belonging to the Consolidated Coal Company, a new boiler has been put in in place of the old one, which, being tested, was found unsafe.

*Blown Out Shots*—On December 18, 1895, a serious explosion occurred at Odin mine, the result of a blown out shot; six men were more or less seriously burned and one was overcome by the smoke.

About noon, Joshua Dallas, an old and experienced miner, fired two shots in number 8 room, in second south entry; the room was only partially widened out and only a few yards from the entry. The blasting from this mine is all done from the solid, and this is rather poor coal for blasting, there being no parting from the roof and a poor one from the bottom; heavy charges of powder are necessary under the circumstances, and all the way from two to five quarts are used at a charge. The first of the two shots mentioned was a gripping shot on the left side of the room and had but a poor opportunity to do its work as it was gripping too much; it blew a little off the front of the shot and pounded that to slack and part of the hole was left standing. The second shot was on the right side of the room and pointing backward towards the first shot; it was bored only about 3½ feet and had practically no chance at all to do any work; it seems to have been heavily charged, leaving little room for the tamping. When this shot was fired, it simply blew the tamping and the force of explosion followed out both entries of Numbers 1 and 2 and burned men on both entries, some of them 500 feet from where the shot was fired. The ventilation of this mine is excellent and the current was blowing almost directly into the mouth of room number 8, from a cross-cut between number 1 and 2 entries. The room being damp, formed a moisture, so there

was no dust present except that manufactured by the first shot, which undoubtedly was the case.

I suggested to the company that no firing be done except by a man or men selected by the company and only at night, when no person but the shot-firers would be in the mine when the shooting was being done, and as they could select a place of safety from the direction that an explosion (if any should occur) would follow, comparative safety would be assured. The suggestion has been followed with good results, as several minor explosions of this kind have occurred since, and the shot-firers, by intelligently selecting a safe retreat from the probable direction of the explosion, have escaped harm.

I believe there is only one way to prevent this kind of accident, and that is to undermine the coal before blasting it, then less powder can be used at a charge. The danger arises from the quantity of powder used in charging. When a hole charged with about a half a keg of powder blows the tamping, the force and heat generated by the exploding of so much powder can easily be imagined.

*Payment for Mining*—It is impossible under existing circumstances to ascertain a correct average price paid for hand mining in this district, as by far the larger portion of it is paid for by the "box." In the first place, the size of the box varies at different mines, some are loaded with a close shovel taking slack and coal together, and some with a fork which leaves the coal comparatively clean; a great many use the rake and pan, but in no case are the miners paid by strict measure; the quantity of coal on top of the car varies with the ability and disposition of the boss to obtain results.

The men in this district are strongly opposed to the box system and desire to be paid by weight, because it is just.

*Fatal Accidents*—Thomas Jones, aged 52 years, married, miner, at Superior Coal Company mine, was instantly killed by a fall of rock. The accident happened between 5 and 6 p. m., when the shooting is being done before quitting work. There was a fault or slip in the roof running diagonally across the face of his entry. He had three shots to fire; one, or perhaps two of them had already been fired and he returned in the smoke to fire another, when the rock fell on him, crushing him above the hips and fracturing his skull at the back, which probably caused his death, and which was no doubt hastened by the dense powder smoke in which he was imprisoned for some time. The accident was the probable result of the deceased unwittingly violating the law prohibiting the firing of a second shot where the roof is broken or faulty, until the smoke of the previous shot has cleared away and the roof been examined. Mr. Jones was a Welchman by birth, and left a widow and two dependent children.

April 2, 1896, at the Rentchler mine of the Missouri & Illinois Coal Company, Edward Bunningham, a loader, was fatally injured by a fall of rock and died three days later. He was loading a car at the time the stone fell on him. The mine boss claimed to have ordered him to place more props under the stone, which was known to be loose; this he neglected to do. He was a single man, a native of America and 35 years of age.

April 11, 1895, at the St. Clair mine of the Missouri & Illinois Coal Company, Adolph Schwab, single, aged 19 years, a native born, was killed by a

rock. He had only been working in the mine five days, being employed as a loader; was a cooper by trade and had never worked in a mine before. There were two other men in the room at the time of the accident and they narrowly escaped the same fate. One of the two had been loading in the room with the deceased that morning, and his experience in the mine, as stated at the inquest, was only about two months. Mr. Conrad, the mine boss, visited the place at 8 o'clock in the morning and observed a loose piece of clod overhead where the men were loading, not sounding it, however; he supposed it to be only a small piece, and told Mr. Cantar (the older man) to take it down, which he claimed he did; he did not sound the rock either, hence did not know its magnitude or how dangerous it was. At the inquest it developed that the mine was not examined that morning before the men went to work, as required by law, and the jury found a verdict blaming the mine manager for not having such examination made. The deceased was the main support of his father and mother and their five children.

May 19, 1896, at the Madison Coal Company mine No. 4, located at Glen Carbon, John Govinott, machine runner, aged 30, single, a Russian by birth, had his back broken by a fall of rock about 5 a. m. He was working on the night shift and had completed his day's work, and waited to help the shooter fire the holes; he had fired two near the center of the room that did excellent work, bringing down nearly all the mined coal in the room, but seeing a pot-hole near the left-hand rib that was not observed before the shooting, he was in the act of lighting the left-hand rib shot, when the rock fell and struck him in such a way that it knocked him against the rib with such force that it dislocated his back. He died June 5, 1896.

The following tables give the details of the fatal and non-fatal accidents and information in detail of the mines in the coal-producing counties in this district.

Respectfully submitted,

T. S. CUMMING,

*State Inspector of Mines, Sixth District.*

BELLEVILLE, ILL.

*Fatal Casualties in and about Coal Mines in the Sixth District of Illinois, for the year ending July 1, 1896.*

Date.	Name.	Age .....	Occupation.	Residence—Town	Name of Mine.	Persons dependent..	Cause of Accident.
1896.							
Feb.	14 Thomas Jones .....	52 Miner.....		Kimmury .....	Superior Coal Mine..	3	Falling rock, while lighting a shot .....
April	12 Ed Cunningham .....	35 Loader.....		Rentchler .....	Rentchler .....	1	Falling rock, while loading a car .....
	11 Adolph Schwab .....	19 .....		Friedburg .....	St. Clair .....	1	Falling rock .....
May	19 John Govinott .....	30 Machine runner..		Glen Carbon.....	Glen Carbon No. 4 ..	1	Falling rock, while lighting a shot .....
	Totals .....					1 1 2 3	
						1 1 2 3	

*Recapitulation of Fatal Accidents.*

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Freeburg.....	1	Loaders.....	2	Falling rock.....	4	Madison Coal Co.....	1
Glen Carbon.....	1	Machine runner.....	1			Missouri and Illinois Coal Co.....	2
Kimmunity.....	1	Miners.....	1			Superior Coal Co.....	1
Kentchler.....	1						
Totals.....	4		4		4		4

## Non-Fatal Casualties in and about Coal Mines in the Sixth District of Illinois, for the year ending July 1, 1896.

Date.	Name.	Age.	Occupation.	Residence— Town.	Name of Mine.	Married.	Single.	No. dependents.	Character of Injury and Cause of Accident.	Time lost— days.
1895.										
July	18 Geo. Barton	25	Driver	Centralia	Big 1	1			Hurt through hips, squeezed between pit cars.	8
	23 Sam Snyder	29	Loader	Glen Carbon	No. 2				Face bruised by falling rock	14
	23 E. K. Leavitt	21	Driver	Glen Carbon	No. 1				Hip injured by pit-car	12
Aug.	12 Ed Rogers	35	Driver	Centralia	Big 4				Hip bruised by falling down	11
	20 Peter Miller	35	Blast	Centralia	Big 4				Body bruised by falling rock	40
	20 Henry Samsil	36	Loader	Belleville	Maessie Coal Co., No. 1				Head, breast and foot injured by falling rock	10
	31 Henry Thorp	36	Top boss	Glen Carbon	No. 2				Lost his finger, by shaker engine	21
Sept.	5 Chas. Thern	36	Driver	Marissa	Marissa mine				Injured inwardly, squeezed between roof and box.	7
	9 Wm. Goss	28	Blast	Glen Carbon	No. 1				Chest bruised by falling coal	1
	9 Ferd Esterlin	30	R.R. employe	Glen Carbon	Abbey, No. 3				Leg bruised, caught between apron and engine cab	1
	21 Joseph Conroy	30	Driver	Worden	Big 4				Knee cap fractured, by trying to stop a trip	120
	21 John Holzapple	28	Loader	Centralia	Big 4				Injured by falling rock	58
	21 John Henge	28	Blast	Collinsville	Abbey, No. 3				Hands, arms and face burned; premature blast	11
	21 John Ruffledge	19	Driver	Worden	No. 12				Face and eyes burned; premature blast	14
	24 Henry Kluck	16	Driver	Worden	No. 12				Hip dislocated by a rock slipping on him	21
	27 Amel Shutter	20	Driver	Glen Carbon	No. 1				Chest & back bruised, squeezed betw'n roof & box	31
Oct.	31 John Steber	20	"	Glen Carbon	No. 1				Back and side bruised with pit cars	8
	9 Melvin Brooks	24	Miner	Raab Station	Oakland mine				Hips and back bruised by falling rock	7
	12 Chas. Mantel	23	Timberman	Glen Carbon	No. 2				Toe broken by falling coal	40
	13 Chas. Hogan	26	Sulphur picker	"	No. 4				Arm broken by falling from railroad car	16
	15 Henry Seibicke	16	Loader	Centralia	Big 4				Head and leg bruised by falling rock	48
	20 Geo. Borosh	22	Driver	Alma	Alma				Leg broken by falling rock	3
	28 Ed Skates	22	Miner	Centralia	Alma				Body bruised by flying coal from shot	120
Nov.	1 John Gaul	15	Miner	Centralia	Alma				Leg broken by falling coal	10
	1 James Roberts	13	Loader	Collinsville	Abbey, No. 3				Shoulder bruised by falling coal	25
	13 Joseph Benatto	17	Miner	Belleville	Walnut Valley				Leg broken by falling coal	100
	14 Ed Lall	30	Driver	Centralia	Big 4				Fingers mashed, springing pit cars	10
	22 A. Schlezertner	27	Blacksmith	"	"				Lost his fingers while repairing elevator chain	27
	23 John Klukes	20	Loader	"	"				Hand bruised, caught between car and roof	44
	23 Ed Humphrey	36	Blast	"	"				Ankle sprained by foot turning over	37
	24 John Solis	37	Blast	"	"				Burned on face and hands	74
	30 John Tierney	40	Loader	Glen Carbon	No. 2				End of thumb cut off while coupling pit cars	26
Dec.	21 John Rozl	37	Blast	Ogle Station	Branch mine				Ankle sprained by falling coal	9
	5 Wm. Ray	37	Blast	New Athens	New Athens				Shoulder and knee bruised by falling coal	14
	5 Henry Sims	20	Acting eng.	New Athens	New Athens				Breast bruised and hit inwardly; boiler explosion	30
	5 David B. Hill	24	Farmer	New Athens	New Athens				Face & hips bruised & head burned; boiler explosion	14

## Non-Fatal Casualties Sixth District—Concluded

Date.	Name.	Age.	Occupation.	Residence— Town.	Name of Mine.	Married.	Single.	No. persons (children.	Character of Injury and Cause of Accident.	Time lost— days.
1885.										
Dec.	5 Wm. Sims .....	46	Teamster.	New Athens.	New Athens.	1	1	1	Arm and jaw broken; boiler explosion.	90
"	5 John Keim .....	17	Teamster.	"	"	1	1	1	Face badly burned; boiler explosion.	15
"	5 Jacob Emjoy .....	30	Farmer.	"	"	1	1	1	Leg broken and body burned; boiler explosion.	150
"	7 Pat Taggart .....	26	Driver.	Birkner.	Crown, No. 1.	1	1	1	Leg broken by falling rock.	33
"	13 Miller Fontus .....	44	Laborer.	Glen Carbon.	No. 2.	1	1	2	Shoulder blade broken by loaded cars.	8
"	16 John Kenge .....	25	Timberman.	Collinsville.	Abbey, No. 3.	1	1	3	Arm bruised by falling rock.	3
"	18 J. B. Wells .....	19	"	Troy.	Troy mine.	1	1	2	Foot cut with an ax while making cap pieces.	21
"	19 Chas. Matotz .....	25	Helper.	Collinsville.	Abbey No. 3.	1	1	2	Leg broken, back and hips bruised by falling coal.	88
"	21 Joshua Dallas .....	50	Miner.	Odin.	Odin mine.	1	1	2	Hands and face burned; explosion caused by blown out shot.	90
"	21 Robt. Dallas .....	17	"	"	"	1	1	1	Hands and face burned; explosion caused by blown out shot.	90
"	21 Harry Jordan .....	27	"	"	"	1	1	1	Legs, arms, back and face burned; explosion caused by blown out shot.	60
"	21 John Simpson .....	25	"	"	"	1	1	3	Arms and face burned; explosion caused by blown out shot.	60
"	21 Andrew Dennon .....	22	"	"	"	1	1	1	Hand and face burned; explosion caused by blown out shot.	12
"	21 Schuyler Bartlett .....	27	"	"	"	1	1	2	Wrist and face burned; explosion caused by blown out shot.	10
"	27 M. Belleville .....	27	Driver.	Belleville.	Walnut Valley.	1	1	3	Slightly bruised; caught between cars.	24
"	28 Geo. Treese .....	51	Miner.	"	Maule mine.	1	1	10	Three ribs broken by falling in trip hole.	7
1886.										
Jan.	3 Joe Morych .....	27	Loader.	Glen Carbon.	No. 2.	1	1	1	Scalp wound by falling rock.	39
"	6 Ed Meyer .....	20	Driver.	"	No. 1.	1	1	2	Broken wrist, caught between cars.	15
"	8 Frank Stenmer .....	24	Loader.	"	"	1	1	2	Thumb sprained by falling off car.	30
"	9 J. W. Herrin .....	36	"	Centralia.	M. & M'f'g Co. No. 2.	1	1	2	Bruised by falling rock.	21
"	17 Cyrus Campbell .....	18	Driver.	"	"	1	1	1	Squeezed between pit cars.	125
"	20 Geo. Albert .....	45	"	O'Fallon.	Darrow mine.	1	1	1	Leg and arm broken by falling rock.	30
"	21 Wm. Aldrup .....	40	"	Richland.	Richland mine.	1	1	5	Arm broken by falling coal (amputate l)	16
Feb.	6 Roy McBride .....	46	Helper.	Edwardsville.	No. 3.	1	1	2	Ankle dislocated by falling rock.	60
"	10 Henry Webster .....	46	Driver.	Centralia.	M. & M'f'g Co. No. 2.	1	1	1	Ribs broken, caught between pit cars.	21
"	17 E. Wheeler .....	43	"	Collinsville.	Heintz Bluff.	1	1	6	Leg broken, caught between pit cars.	13
"	18 Wm. Gast .....	46	"	Marissa.	White Oak.	1	1	1	Bruised on hand by falling rock.	11
"	21 E. Huskeneyer .....	37	Blaster.	O'Fallon.	Darrow mine.	1	1	2	Leg broken by flying coal from blast.	1
"	21 E. L. Drake .....	37	Miner.	Warden No. 12.	No. 12.	1	1	3	Ankle bruised by falling rock.	9
"	21 Peter Bradley .....	37	Driver.	Edwardsville.	No. 3.	1	1	2	Back hurt by falling rock.	40
"	21 Dav d Traverse .....	37	Miner.	Leuz St tion.	Branch mine.	1	1	6	Leg broken by falling rock.	80
Mar.	41 Chas. McClintock .....	21	Driver.	Glen Carbon.	No. 4.	1	1	1	Foot bruised, caught in frog, run over by car.	80



Mar.	4 Mike Barty.....	23 Timberman.....	Glen Carbon.....	No. 4.....	1	Leg bruised by falling rock.....	7
"	5 Geo. Mitchell.....	24 Miner.....	Bunker Hill.....	Branch mine.....	1	Foot.....	7
"	14 Harry Bonath.....	18 Miner.....	Centralia.....	Big 1.....	1	Leg broken.....	125
"	30 Peter Schlick.....	50 Loader.....	Glen Carbon.....	No. 1.....	1	Leg broken by falling down.....	90
April	1 A. A. Fischer.....	23 Top boss.....	Glen Carbon.....	Big 1.....	1	Hips bruised by falling off a ladder.....	8
"	8 John Boni.....	27 Logger.....	Centralia.....	Big 4.....	1	Finger mashed by falling rock.....	21
"	11 Sam Adams.....	36 Blaster.....	Sandoval.....	Sandoval mine.....	1	Caught between car and rib (body bruised).....	30
"	13 John Grier.....	24 Miner.....	Lenz Station.....	Crown No. 1.....	1	Burned about the head, blown out shot.....	24
May	4 Ben Ricks.....	24 Driver.....	Centralia.....	Big 4.....	1	Hips and kidneys bruised by falling coal.....	24
"	12 Peter Fossall.....	30 Helper.....	Glen Carbon.....	No. 4.....	1	Body bruised, caught between loaded car and roof.....	20
"	24 Fred Jones.....	22 Driver.....	O'd'n.....	O'd'n mine.....	1	Shoulder bruised and scalp wound, falling coal.....	7
"	27 John Smith.....	19 Miner.....	Collinsville.....	Heintz Bluff.....	1	Leg broken, caught between pit cars.....	90
June	1 Wm. Worst.....	38 Timberman.....	Glen Carbon.....	No. 2.....	1	Arm broken, run over by pit car.....	90
"	9 John Pritchard.....	43 Laborer.....	Breece.....	Future mine.....	1	Finger mashed between car and roof.....	29
"	9 Joseph Polliker.....	35 Miner.....	Glen Carbon.....	No. 1.....	1	Foot punctured, stepped on a nail.....	8
"	10 Henry Steber.....	24 Pipe man.....	Glen Carbon.....	No. 2.....	1	Leg broken by falling coal and rock (amputated).....	9
"	13 Geo. Romanat.....	30 Helper.....	O'd'n.....	O'd'n mine.....	1	Leg cut and bruised, caught between car and roof.....	7
"	18 John Bryant.....	45 Miner.....	Glen Carbon.....	No. 2.....	1	Hip and head bruised by falling coal.....	12
"	24 T. V. Utt.....	24 Weigher.....	Glen Carbon.....	No. 2.....	1	Hip and leg hurt by falling rock and coal.....	*
						Foot cut and bruised by a piece of sheet iron falling on it.....	*

\* Not at work yet.

## Recapitulation of Non-Fatal Accidents.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Alma.....	2	Blasters.....	7	Ax.....	1	Breese Coal Co.....	1
Belleville.....	4	Blacksmiths.....	1	Blown out shots.....	7	Centralia M. & M. Co.....	4
Berkner.....	1	Drivers.....	22	Boiler explosion.....	5	Con. C. Co.....	21
Breese.....	1	Engineers.....	1	Elevator.....	1	Consumers Coal Co.....	2
Bunkerhill.....	1	Farmers.....	2	Foot twisting.....	1	Crown Coal and Tow Co.....	2
Centralia.....	18	Helpers.....	5	Falling coal.....	14	Dutch Hill Co.....	3
Collinsville.....	8	Laborers.....	2	Falling down.....	6	Geo. Hippard.....	2
Edwardsville.....	2	Loaders.....	15	Falling rock.....	23	Manly Coal Co.....	1
Glen Carbon.....	25	Miners.....	23	Premature blast.....	3	Madison Coal Co.....	26
Lenz Station.....	2	Pipemen.....	1	Pit cars.....	1	Massie Coal Co.....	1
Marissa.....	2	Railroad employé.....	1	Chute apron.....	1	Oakland Coal Co.....	1
New Athens.....	5	Sulphur picker.....	1	Shaker engine.....	1	Odin Coal Co.....	9
O'Fallon.....	9	Teamsters.....	1	Sheet iron.....	1	P. & D. M. & M. Co.....	15
Ozle Station.....	2	Timbermen.....	5	Stepping on nail.....	1	Sandoval C. Co.....	1
Raab Station.....	1	Top bosses.....	2	Flying coal.....	3		
Richland.....	1	Tommen.....	1				
Sandoval.....	1	Weighers.....	1				
Troy.....	1						
Worden.....	4						
Total.....	91		91		91	Total.....	91

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# STATISTICAL TABLES.

SIXTH DISTRICT.

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*Bond County—Sixth District—1896.*

[illegible]

*Clinton County—Sixth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Consolidated Coal Co. ....	Trenton .....	Collinsville...	Sh. ....	333	4.3	2.0	Sh. ....	R. P. ....	M. H. ....
3	Breese Coal Co. (Future)...	Breese .....	Breese .....	" .....	400	8	.9	" .....	" .....	" .....
					400	7.6	2.0			
	Totals (3 mines).....	.....	.....	.....			4.9	.....	.....	.....
	Averages .....	.....	.....	.....				.....	.....	.....

*Bond County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	103	103	15	15	.....	S. M.	80	..	..	68,669	54,529	14,140	\$0 65	173	\$0 65	1,950
2	.....	23	....	6	.....	.....	100	..	..	2,380	1,308	1,081	1 00	75	65	200
3	103	126	15	21	.....	.....	.....	..	..	71,058	55,837	15,221	.....	.....	.....	2,150
4	.....	.....	.....	.....	.....	.....	.....	..	..	.....	.....	.....	.658	.....	.....	.....

*Clinton County—1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.					Fatal.	Non fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	108	108	27	27	.....	.....	.....	..	..	83,104	62,981	25,123	\$1 00	171	\$0 60	746
2	70	70	11	11	5	M.	100	..	..	81,352	63,315	21,013	60	164	50	2,127
3	97	77	8	8	5	S.-M.	100	..	..	137,038	131,196	5,932	65	264	50	4,370
4	275	255	46	46	7	.....	.....	..	1	300,504	237,436	52,068	.....	.....	.....	7,243
5	.....	.....	.....	.....	.....	.....	.....	..	..	.....	.....	.....	72 33	.....	.....	.....

*Marion County—Sixth District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Centralia Mine & Mfg. Co.	Centralia.....	Centralia.....	S.	576	7	20	Sh.	R. P.	H.
2	P. & D. Min. & Mfg. Co. B. 4	.....	.....	..	637	6	16	..	..	..
3	Odin Coal Co.	Odin.....	Odin.....	..	714	6.6	22	..	..	..
4	Sandoval Coal & Min. Co.	Sandoval.....	Sandoval.....	..	609	5.6	28	..	..	..
5	Superior Coal Co.	Kimmundy.....	Kimmundy.....	..	871	4	4	..	..	..
6	Salem Coal Co.	Salem.....	Salem.....	..	885	3.9	2	..	..	..
Totals (6 mines)							92			
Average.....										

## Marion County, 1896--Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, Weekly, semi-monthly or monthly.	Per cent gross contents of pit-car for which miner receives pay.	Accidents.	PRODUCTS AND VALUES.				SUPPLIES.		
	Under-ground.	Summer.	Winter.	Above-ground.					Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Av. wage value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Keys of powder used during the year.
1	205	164	54	39	.....	M.	.....	1	138,179	125,682	22,477	\$0 70	289	80 60	4,516
2	153	152	46	40	.....	S.	.....	14	180,573	99,317	81,259	75	267	60	5,000
3	110	110	26	20	4	S.	100	9	117,000	79,635	37,365	68	250	60	3,793
4	116	116	16	16	.....	M.	100	1	158,857	126,401	32,456	65	243	.....	4,220
5	44	30	12	8	.....	M.	.....	1	32,369	23,313	9,056	85	275	65	1,000
6	19	19	3	3	1	W.	85	.....	6,000	4,900	1,100	1 10	200	60	90
..	649	591	115	126	13	.....	.....	1 28	643,561	459,509	184,052	.....	.....	.....	18,619
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$0 7054	249	.....	.....

## Madison County—Sixth District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Es. mined number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Cons. Coal Co., Abbey No. 3.	Collinsville...	Collinsville...	S	146 6.8	22	Sh.	R. P.	M	
2	" Brookside...	Troy .....	" .....	"	278 5	6	"	"	"	H
3	" Troy Mine...	" .....	" .....	"	278 5	9	"	"	"	M
4	" Heinz Bluff...	Collinsville...	" .....	"	168 6.8	18	"	"	"	M
5	" No. 12.....	Worden.....	Staunton.....	"	275 7	8	"	"	"	H
6	" McDonald...	" .....	" .....	"	300 7	"	"	"	"	"
7	Madison Coal Co., No. 1....	Glen Carbon...	Glen Carbon...	"	96 6.6	17	"	"	"	"
8	" No. 2.....	" .....	" .....	"	110 6.6	24	"	"	"	M
9	" No. 3.....	Edwardsville...	" .....	"	217 6.6	7	"	"	"	"
10	" No. 4.....	Glen Carbon...	" .....	"	130 6.6	9	"	"	"	"
11	Wonderly Coal Co.....	Edwardsville...	Edwardsville...	"	150 5	3	"	"	"	H
12	Lumaghi Coal Co.....	Collinsville...	St. Louis, Mo.	"	160 7	12	"	"	"	"
13	Nathan Sydal.....	North Alton...	North Alton...	L	80 2.6	5	"	"	"	"
14	John Price.....	" .....	" .....	"	50 2.6	1	"	"	"	"
15	B. L. Elfrin.....	" .....	" .....	"	56 3	.2	"	"	"	"
16	Ball & Maloy.....	" .....	" .....	"	100 2.6	.8	"	"	"	"
17	John Spencer.....	Bethalto .....	Bethalto .....	"	65 4	.1	"	"	"	"
18	L. Yager.....	Near Moro.....	Moro.....	"	50 5	"	"	"	"	"
19	Wm. Richardson.....	" .....	" .....	"	48 5	"	"	"	"	"
20	Wm. Largent (Kabel's).....	" .....	" .....	"	85 4.6	.2	"	"	"	"
21	Wm. Chalengsworth.....	Fosterburg...	Fosterburg...	"	70 3.6	.2	"	"	"	"
22	Sam McDonald.....	Moro.....	Moro.....	"	45 6	.1	"	"	"	"
23	John James.....	Bethalto .....	Bethalto .....	"	67 5.6	1	"	"	"	"
24	* Kanter Bros.....	Near Wan.....	Wan.....	"	2.6	"	"	"	"	"
Total (24 mines).....							139.1			
Averages.....										

\* New mine, and no report furnished.



## Madison County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	ACCIDENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	118	118	21	21				6	149,537	117,054	32,482	\$0 70	202	\$0 50	904	
2	69	69	8	8	3	M.	100		1	30,637	21,987	8,650	1 0	153	50	388
3	61	61	14	14				1	44,484	29,943	14,541	1 00	154	50	394	
4	92	92	17	17				2	126,935	96,108	30,827	70	225	50	792	
5	41	41	3	3	3	M.	100	4	40,937	32,750	8,187	70	177	65	749	
6	2	2	2	2			100		541	451	90	75	24		10	
7	72	72	5	5	2	S.-M.		10	125,736	88,402	37,334	55	233	50	2,081	
8	242	164	20	15				10	274,629	200,978	73,651	55	203	50	2,309	
9	115	31	13	5				2	64,878	52,711	12,167	80	225	50	699	
10	170	114	8	6				1	5	100,362	70,545	29,817	55	158	50	1,138
11	33	17	4	3	1	S.-M.	100			12,257	11,423	834	75	280	50	439
12	57	39	5	4	1		100			99,724	59,670	40,054	55	280	50	2,221
13	6	2	1	1		W.	100			1,050	1,050		1 50	250		
14	4	2	1	1			100			1,780	1,780		1 37½	200		
15	3	2	1	1			100			500	500		1 37½	120		
16	6	2	1	1			100			1,600	1,600		1 62½	200		
17	2	1	1	1			100			500	500		1 25	200		
18	1	1	1	1			100			200	200		1 00	100		
19	1	1	1	1			100			381	381		1 00	180		
20	2	1	1	1			100			750	750		1 00	250		
21	4	2	1	1			100			600	600		1 25	150		
22	4	1	1	1			100			500	500		1 00	125		
23	7	2	1	1			100			2,200	2,200		1 00	162		
24																
..	1,112	837	131	114	10			1	40	1,080,718	792,083	288,635				12,124
..												\$0 655	192			

## St. Clair County—Sixth District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
	Cons. C. Co., St. Louis—									
1	Schureman.....	Belleville.....	Belleville.....	Sh.	125 6	5	Sh.	R. P.	M.	
2	Richland.....	"	"	"	90 8	3	"	"	H.	
3	Gartside No. 4.....	"	"	"	205 6.6	6	"	"	M.	
4	Knecht.....	"	"	"	125 6	4	"	"	"	
5	Dutch Hollow.....	"	"	"	125 6	3	"	"	H.	
6	Green Mount.....	"	"	"	160 6	4	"	"	M.	
7	Pittsburg.....	"	"	"	132 6.6	3	"	"	H.	
8	Rose Hill.....	"	"	"	125 6	3	"	"	M.	
9	Marissa.....	Marissa.....	"	"	120 6	5	"	"	H.	
10	White Oak.....	"	"	"	147 6	6	"	"	"	
11	Alma.....	Ridge Prairie.	Collinsville.....	"	210 6.6	10	"	"	"	
12	Mentor.....	"	"	"	210 7	8	"	"	"	
13	Reinecke.....	Birkner.....	Belleville.....	"	120 6	4	"	"	"	
14	Abbey No. 4.....	Collinsville.....	Collinsville.....	"	140 6.6	8	"	"	"	
15	Oakland Coal Co.....	Lenz Station.....	Belleville.....	"	175 6.6	5	"	"	M.	
16	John Hurst.....	Belleville.....	"	L.	55 7	1.5	"	"	H.	
17	Klingentus Bros. Abnd No.1	"	"	"	70 6	.6	"	"	"	
18	Frank Murphy, No. 2.....	"	"	"	60 6.6	.5	"	"	"	
19	J. Im Kloess.....	"	"	Sh.	110 8	1	"	"	"	
20	Humboldt Coal Co.....	"	"	"	100 6.6	1.5	"	"	"	
21	Con. Reinecke, No. 2.....	"	"	"	110 6	12	"	"	"	
22	Highland Coal Co.....	"	"	"	130 6.6	6	"	"	"	
23	John Maule Coal Co., No. 1.	"	"	"	60 6.6	6	Sl.	"	"	
24	" Nat'l.	"	"	"	60 6.6	3	Sh.	"	"	
25	Massie Coal Co., No. 1.....	"	"	"	120 6	3	"	"	"	
26	" No. 2.....	"	"	"	90 6	3	"	"	"	
27	West End Coal Co.....	"	"	"	115 7	1	"	"	"	
28	Brosius Bros.....	"	"	L.	60 6	.5	"	"	"	
29	Nie Weiss.....	"	"	"	66 6.6	.4	"	"	"	
30	Glendale Coal Co.....	"	"	Sh.	120 6.6	10	"	"	B.	
31	J. Krantz.....	"	"	"	55 6	2	"	"	H.	
32	Wm. Skellett C. Co., L. & N.	"	St. Louis, Mo.	"	160 6	5	"	"	"	
33	Crown Coal & Tow Co., No. 1	Harmony Sta.	St. Louis, Mo.	"	150 5.6	4	"	"	"	
34	"	2 Lenz Station.	"	"	185 7	7	"	"	"	
35	"	4 Near Belleville	"	"	125 7	6	"	"	"	
36	Oak Hill Coal Co.....	"	Belleville.....	"	187 6	5	"	"	"	
37	Ebel Bros.....	"	"	L.	50 6.6	.8	"	"	"	
38	Mo. & Ill. C. Co., Wilderm'n	Wilderman St.	St. Louis, Mo	Sh.	90 6	12	"	"	M.	
39	" Rentchler	Rentchler Sta.	"	"	120 6	9	"	"	H.	
40	" St. Clair.	Freeburg.....	"	"	130 6	10	"	"	"	
41	Chas. Becker, "Freeburg"	"	Freeburg.....	"	130 7	3	"	"	"	
42	Dutch Hollow C. Co., Randle	"	St. Louis, Mo.	"	150 6.6	3	"	"	"	
43	Johnston Coal Co., "O. K."	Marissa.....	Marissa.....	"	120 6	3	"	"	"	
44	Advance Coal Co., Advance	"	"	"	87 7	5	"	"	"	
45	Consumers' C. Co., Darrow	Near O'Fallon	St. Louis, Mo.	"	200 6	8	"	"	"	
46	" Ruby.....	Caseville	"	"	200 7.6	2	"	"	"	
47	Joseph Taylor.....	O'Fallon	O'Fallon.....	"	200 7	10	"	"	"	
48	Tirre Coal Co., "Lenzburg"	Lenzburg.....	Lenzburg.....	"	191 6.6	3.5	"	"	"	
49	Walnut Hill Coal Co.....	Lenz Station..	Birkner.....	"	200 7	3	"	"	"	
50	Summit Coal Co.....	Birkner.....	"	"	190 7	4.5	"	"	"	
51	Leb. C. & M. Assn., Bennetts	Lebanon.....	St. Louis, Mo.	"	200 6	7	"	"	M.	
52	W. Ogden & Bro., Enterprise	Rentchler.....	Rentchler.....	"	120 7	1.5	"	"	H.	
53	J. Moser, "Turkey Hill".....	"	"	"	110 7	2	"	"	"	

## St. Clair County, 1896—Continued.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1																
2	28									31,001	24,733	6,268	\$0 65			
3	20	20	4	4						30,909	23,103	7,806	60	209	\$0 50	313
4	29	29	6	6	1	M.	100		1	41,759	32,296	9,463	65	209	60	647
5	30	30	5	5						26,487	22,082	4,395	65	204	70	289
6										510	422	88	65	71	70	360
7	26	26	3	3						28,640	22,711	5,929	65	15		
8	17	17	2	2	2	M.	100			16,515	14,361	2,154	65	215	50	234
9	20	20	2	2						16,463	13,876	2,587	65	191	50	478
10	24	24	5	5		M.	100	1		30,918	26,999	3,919	65	171	50	150
11	30	30	4	4			100	1		36,746	29,908	6,838	65	166	60	900
12	51	51	9	9	4		100	3		71,261	62,294	8,967	60	147	60	1,034
13	56	56	10	10			100			68,823	61,815	7,008	60	182	50	1,912
14							100			2,342	1,904	438	65	156	50	1,661
15	30	30	5	5			100			53,052	37,105	15,947	70	20		
16	29	29	5	5			100	1		34,937	31,599	3,338	45	238	50	1,259
17	5	5	1	1		S.-M.	100			5,400	5,400		75	220	65	318
18	3	3	1	1		W.	100			4,500	4,500		75	300	50	24
19	35	35	2	2			100			3,000	3,000		65	300	40	150
20	19	10	1	1		S.-M.	100			6,281	5,860	421	55	147	50	25
21	60	54	7	7			100			10,000	10,000		55	100	60	250
22	35	29	3	3			92			73,300	69,800	3,500	50	200	60	2,617
23	101	81	7	7		W.	100	1		37,785	35,785	2,000	60	180	60	833
24	28		2	2			90			37,836	37,836		57	200	65	1,290
25	43	43	3	3		S.-M.	100	1		10,231	8,150	2,081	55	150	65	200
26	38	38	4	4			100			20,830	17,617	3,213	50	160	60	570
27	21	16	2	2	2	M.	100			26,497	18,927	7,570	60	150	60	600
28	5	5	1	1		S.-M.	100			6,000	6,000		55	150	50	180
29	4	3	1	1			100			3,000	3,000		75	155	60	100
30	66	39	6	6	4		100			2,003	2,003		1 00	300	80	28
31	25	21	2	2	2		100			64,500	53,800	10,700	55	215	60	700
32	37	21	4	4	2		90			12,052	12,052		50	210	60	40
33	34	34	4	4			100	2		28,378	25,084	3,294	55	192	60	1,058
34	43	43	4	4	3		100			25,500	22,500	3,000	35	180	60	720
35	67	67	6	6	1		100			41,400	36,000	5,400	40	180	60	500
36	24	24	3	3	2	M.	100			36,000	30,000	6,000	30	180	60	1,000
37	7	5	2	2	2	S.-M.	100			28,977	24,366	4,611	44 1/2	217	50	726
38	37	31	5	5			100			4,800	4,800		1 00	300	70	100
39	37	27	4	3			100	1		69,237	55,360	13,897	50	234	60	2,981
40	45	38	4	4			190	1		55,482	44,320	11,162	50	252	60	1,616
41	19	15	3	3		M.	100			60,404	48,320	12,084	50	243	60	1,943
42	12	12	2	2		S.-M.	100			16,000	14,000	2,000	42 1/2	225	50	510
43	18	12	3	2			100			17,338	16,338	1,000	50	230	50	559
44	28	21	4	4	4	M.	100			17,000	13,000	4,000	50	228	50	475
45	94	77	10	10	6	S.-M.	100	2		31,712	31,000	712	55	250	70	955
46	24	24	6	6			100			48,191	29,932	18,259	65	188		112
47	67	57	5	5	2		100			6,212	4,410	1,802	45	96		950
48	24	24	3	3		M.	100			56,125	47,250	8,875	60	176	50	1,535
49	27	12	3	2		S.-M.	100			22,186	17,359	4,827	50	250	60	550
50	24	24	3	3	5	M.	100			18,443	16,119	2,224	55	200	70	550
51	69	37	8	6			100			27,080	20,800	6,280	40	192	50	540
52	17	12	2	2		M.	100			50,520	37,840	12,680	70	175	60	400
53	25	17	3	3			100			9,952	9,952		50	200	60	300
							100			15,900	12,000	3,900	40	180	50	500

*St. Clair County—Sixth District—1896—Continued.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post-office address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Dpth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
54	James Beatty.....	Mascoutah ...	Mascoutah ...	L.	175	8	2	Sh.	R. P.	H.
55	Kolb Coal Co., "Kolb Mine"	French Vill'ge	French Vill'ge	Sh.	160	7	2	D.	"	"
56	Con Strawbinger.....	French Vill'ge	French Vill'ge	L.	50	7	1	D.	"	"
57	James Charlton.....	Millstadt .....	Millstadt .....	L.	50	5		Sl.	"	"
58	Millstadt Coal Co. ....	Millstadt .....	Millstadt .....	Sh.	48	5.6	2	Sh.	"	"
59	Wm. Pister, (J. Schmidt)...	Centreville....	Centreville....	L.	46	6	3	"	"	"
60	James Sleimant & Son....	Centreville....	Centreville....	L.	60	6	1	D.	"	"
61	Louis Grossmann.....	Smithton .....	Smithton .....	"	20	6	12	Sl.	"	"
62	Ben Johnston & Son.....	Smithton .....	Smithton .....	"	30	6.6	4	"	"	"
63	Dutch Hill Coal Co.....	New Athens..	New Athens..	"	70	6.6		"	"	"
64	G. Hippard, Walnut Valley.	Belleville....	Belleville....	S.	75	6.6	1.5	"	"	"
65	Lenzburg Coal Co.....	Lenzburg.....	Lenzburg.....	"	90	6.6	2	Sh.	"	"
66	Deidrich Coal Co.....	Freeburg.....	Freeburg.....	L.	60	7.6	1	"	"	"
67	Con. Reeb.....	Belleville....	Belleville....	"	100	7	.5	"	"	"
Totals.....							245.2			
Averages .....										

## St. Clair County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC-CI-DENTS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground					Fatal.	Non-fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
54	2	2	1	1	.....	W.	100	.....	.....	1,000	1,000	.....	\$0 75	100	\$0 50	150
55	30	30	4	4	.....	S.-M.	87½	.....	.....	14,000	14,000	.....	45	240	50	470
56	4	3	1	1	.....	.....	100	.....	.....	4,000	4,000	.....	1 00	250	50	25
57	2	.....	1	1	.....	S.-M.	100	.....	.....	600	600	.....	1 00	180	50	15
58	32	20	2	2	.....	.....	100	.....	.....	14,576	13,680	896	71	185	50	.....
59	6	3	1	1	.....	.....	100	.....	.....	2,112	2,112	.....	1 25	213	60	.....
60	2	1	.....	.....	.....	.....	100	.....	.....	600	600	.....	1 00	260	50	.....
61	2	1	1	1	.....	.....	100	.....	.....	1,200	1,200	.....	1 00	250	65	.....
62	5	5	1	1	.....	W.	100	.....	.....	2,500	2,500	.....	1 00	250	50	2
63	.....	.....	.....	.....	.....	S.-M.	100	.....	5	1,900	1,267	633	75	100	75	65
64	45	45	9	9	.....	.....	.....	.....	2	21,000	18,000	6,000	42½	200	70	1,500
65	4	.....	2	.....	.....	.....	100	.....	.....	1,200	1,200	.....	75	100	60	40
66	2	2	1	1	.....	W.	100	.....	.....	600	600	.....	75	100	60	18
67	6	5	1	1	.....	M.	100	.....	.....	3,000	3,000	.....	75	300	50	11
..	1,807	1,501	223	212	.....	.....	.....	2	22	1,571,323	1,323,507	247,816	.....	.....	.....	38,184
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$0 5526	205	.....	.....

## SEVENTH INSPECTION DISTRICT—1896.

GEO. A. SCHILLING, ESQ.,

*Secretary Bureau of Labor Statistics, Springfield, Ill.:*

DEAR SIR:—In compliance with section twelve of the Mining Law of the State, defining the duties of State Inspectors of Mines, I have the honor to submit to you the first report of the Seventh Inspection District, in the Thirteenth Annual Report of the Inspectors of Mines.

The following is a summary of the statements for all the counties in the district:

Total number of mines.....	126
Total number shipping mines.....	61
Total number of local mines.....	65
Greatest number of miners employed.....	1,987
Greatest number of others employed under ground.....	1,319
Number of boys under 16 years of age under ground.....	44
Total under ground.....	3,350
Greatest number employed above ground.....	476
Total number employed in and around the mines.....	3,816
Total tons all grades produced.....	2,270,746
Total tons of lump coal produced.....	1,026,204
Total tons other grades produced.....	596,027
Number of kegs of powder used in blasting coal.....	55,957
Average number of tons of all grades produced, per keg of powder.....	40
Number of fatal accidents.....	10
Number of non-fatal accidents.....	59
Number of men employed to each fatal accident.....	382
Number of tons of coal produced to each fatal accident.....	270,746
Number of tons of coal produced to each non-fatal accident.....	38,487
Average cost of powder per keg to miner.....	\$1 70
Average cost of oil per gallon to miner.....	\$0 69.6
Average cost of blacksmithing to miner, per month.....	\$0 59
Average value per ton of total product.....	\$0 63.4
Average price paid for hand mining—100 per cent. gross contents.....	\$0 31.1

*New Mines.*—The Williamson County Coal Co., at Johnson City, Williamson county, on the C., P. & M. R. R., and the George Breuggermann mine, at Nashville, Washington county, on the Centralia & Chester R. R., have been opened and put in operation this year. Both are in the shipping class.

Abandoned mines and mines not in operation during the year:

William Barnard's shaft.....	Percy, Randolph county.....
The Pope & Midlin shaft.....	DuQuoin, Perry county.....
Davenport Coal Co. shaft.....	New Castle, Saline county.....
The Eldorado Coal Co. slope.....	Brooklyn, Saline county.....

The Superior Coal Co.'s shaft at DuQuoin, Perry county, has not hoisted any coal during the year, but is in working order.

*Improvements.*—The B., M., C. & I. Co., Murphysboro, Jackson county, have put in an endless rope haulage plant in their No. 5 mine, to haul the coal from main entries of shaft No. 4 to shaft No. 5, where it will be hoisted, shaft No. 4 having been abandoned as a hoisting shaft. They have also established a pumping plant at old No. 1 shaft, to pump out the water, and use this shaft as an air shaft for their new No. 6 shaft, which will be opened up soon.

The Willis Coal and Mining Co., Willisville, Perry county, have put in a new Ingersoll-Sargent Compressor and four mining machines, at their Willisville mine.

The Coulterville Mining Co., Coulterville, Randolph county, have retimbered their hoisting and escapement shaft, and are making all necessary improvements in compliance with the law.

The Mt. Vernon Coal Co., Mt. Vernon, Jefferson county, have completed a new hoisting plant and put in a new 12 ft. fan, and now have one of the best equipped plants in the district.

The I., C., C. & S. Co., St. Johns, Perry county, have built a Campbell coal washer and are now washing and marketing all the slack and fine coal which formerly went to the dump pile.

Cunninghame & Co., of Chicago, have erected a large washer plant at the mine of B., M., C. & C. Co., DeSoto, Jackson county, and are now marketing all coal produced by this mine under 2½ in. They use the Lulrig system and market all coal above 1½ in.

*Ventilation.*—A new 12 foot fan has displaced the furnace at Randolph No. 2, Rosboro, Randolph county.

The Marion Coal Co., Marion Williamson Co., and Brown & Barwell, of Cutler Perry Co., have also put in new 12 foot fans, and are making an effort to improve the ventilation of their mines.

*Escapement Shafts.*—A number of escapement shafts have been sunk during the year, and others are now being sunk which will be completed before spring.

*Prospective Mines.*—The B. M. C. & I. Co., Murphysboro, Jackson County, are now sinking a shaft at Herrins Prairie, Williamson county, on the C. & T. R. R., 9½x20 in clear to the No. 7 seam, which is 140 feet below the surface and 9 feet thick. The indications are this will be one of the largest plants in this district, with a capacity of 1,500 or 1,700 tons per day.

The Harrisburg Mining and Coal Co. are sinking a shaft 7 ft. 4 in.x19 ft. 4 in. in the clear at Harrisburg to the No. 5 and 7 seam. No. 7 seam is about 63 feet below surface, and No. 5 seam is about 200 feet, and 7 ft. 10 in. thick. They will open up both seams from the one shaft.

The Crab Orchard Coal Co., Spillertown, Williamson county, are now sinking a new shaft with a view of making a first-class mine in every respect.

William Barnard has abandoned his old mine at Percy, and will move machinery to Cutler, Perry county, where he will sink a new shaft.

*Fatal Accidents*—September 6, 1895, William Mitchell, miner, 48 years of age, married, wife and two children, employed in Big Muddy Coal and Coke

Co.'s mine at DeSoto, Jackson county, was killed by falling top coal. The deceased in attempting take down topeut, down prop with an axe, thereby letting the coal down upon him with result as above.

✓ September 16, 1895, Robert Leighton, a eager, employed at Gartside mine No. 4, Murpysboro, Jackson county, was found crushed lifeless in the cage seat at bottom of shaft. The coroner returned a verdict of accidental death. The deceased was 40 year of age; left widow and three children.

✓ November 2, 1895, Frank Bowman, miner, age 40 years, single, employed by the Mt. Vernon Coal Co., Jefferson county, was undermining for a shot when a piece of draw slate 3 ft. by 4½ ft. long and about 6 in. thick fell upon him, from a height of about 4½ ft., crushing him so badly he died in five hours after the accident.

✓ December 16, 1895, Joseph Bartelero, miner, age 23, unmarried, employed in Browning mine, DuQuoin, Perry county, while seraping out a hole he had just finished drilling, a large piece of soap stone fell upon him, from the effects of which he died the next day.

He told the workmen who took the stone off him: "For all I have had to do to-day I might have taken it down and had it cleared away." But he neglected to do so and met with the consequences as above stated.

✓ January 27, 1896, James Lafferty, a single man, aged 36 years, was instantly killed, and Sherman Lively, was fatally injured, he dying February 1st, by the premature explosion of a shot in Eden mine, of the Valley and Gulf Coal Co., Sparta, Randolph county. They were tamping a shot. Lafferty was using an iron tamper. It is supposed the tamper struck a sulphur, thereby producing a spark, igniting the powder in hole. Lively said "he could not remember how much of the hole was tamped up." Lively was a married man; leaves widow and two children.

✓ January 29, 1896, Seth Eubanks, a miner, single man, employed in Egyptian mine of the DuQuoin Union Coal Co., DuQuoin, Perry county, was fatally injured by falling of rock and died a few hours after the accident. The deceased was cutting prop on roadway when his brother called him to express an opinion regarding the shot, he came to face of the room, when the rock suddenly fell catching both men. Charles Eubanks, however, was not seriously injured.

✓ February 27, 1896, Alexander Hutton, a widower, 65 years of age, was found dead in his room at the Randolph Coal and Coke Co. shaft No. 1, located at Perey, Randolph county. The deceased had not been in good health for some time and was working against the advice of his friends. The coroner returned a verdict of death by heart failure.

March 20, 1896, Robert Rice, a miner, with seven others, was badly burned by a blown out shot explosion in the Consolidated Coal Co.'s mine, at Coulterville, Randolph county. The accident, with an attack of phneumonia, resulted in his death on March 28, 1896. The shot which caused the explosion was fired by Joseph Kahle. It was a tight corner shot being bound top and bottom by projecting coal. The hole had been fired before and blown tamping, leaving the drill hole in a cracked condition. The hole was drilled deeper and



heavily charged with powder, and when again fired succeeded in blowing out tamping, filling and charred coal blazing into the room, and notwithstanding the fact that the roads had been sprinkled in the morning of same day, it is evident from the intensity and extent of the fire—it reaching about 600 feet from the hole where the shot was fired—that the fine coal dust blown up by said explosion became ignited, which resulted in increasing the intensity of the explosion.

The deceased was standing about twenty-five feet from the entry and in an opposite room about 130 feet from where the explosion occurred, by way of an open entry cross cut. He was a married man, leaving a widow and two children.

Other explosions have occurred at this mine, and in the year 1883, by which ten men lost their lives. I recommend that hereafter all shot firing be done by regularly appointed and experienced firemen. All miners and other employés to be out of mine at time of firing.

Elzie Russell, aged 27, married, wife and two children, was killed by falling slate in the Little Muddy mine, at Percy, Randolph county.

The deceased neglected to properly timber his room after passing through a clay slip in the roof of his room, consequently allowing the roof to fall on him, causing injuries which resulted in his death.

The following tables present the fatal and non-fatal accidents.

Respectfully submitted,

Centralia, Ill.

JAMES B. BENNETT,  
*Inspector Seventh District.*

*Fatal Casualties in and about Coal Mines in the Seventh District of Illinois for the Year ending July 1, 1896.*

Date.	Name.	Age.	Occupation.	Residence—Town.	Name of Mine.	Married.	Widow.	Children.	Single.	No. persons dependent	Cause of Accident.
1895.											
Sept.	William Mitchell	45	Miner	Desoto	Desoto	1	1	2		3	Falling top coal
"	Robert Leighton	40	"	Murphysboro	Gartside No. 4	1	1	3		4	Descending cage
Nov.	Frank Bowman	40	Miner	Mt. Vernon	Mt. Vernon	1	1				Falling rock
Dec.	Joseph Bartelero	23	"	DuQuoin	Brownings				1		
1896.											
Jan.	James Lafferty	36	Miner	Sparta	Eden	1	1	1		1	Premature blast
"	Sherman Lively	26	"	DuQuoin	Egyptian	1	1	1		2	Falling rock
"	Seth Enbarks	19	"	Percy	Randolph No. 1	1	1				Heart failure, Found dead in the mine
Feb.	Alexander Hutton	65	"	Coalterville	Coalterville	1	1	2		3	A blown out shot explosion
March	Robert Rice	32	"	Percy	Little Muddy	1	1	2		3	Falling rock
June	Ezra Russell	27	"			1	1	2			
	Totals					6	5	10	4	15	

\* Widower.

*Recapitulation of Fatal Accidents.*

Residence.	No.	Occupation.	No	Colliery.	No.	Cause of Accident.	No.
Coulterville .....	1	Cager .....	1	Brownings .....	1	Descending cage .....	1
DeSoto .....	1	Miner .....	9	Coulterville .....	1	Falling top coal .....	1
DuQuoin .....	2			Eden .....	2	Falling rock .....	4
Murphysboro .....	1			Egyptian .....	1	Hear' fa lure .....	1
Mt. Vernon .....	1			DeSoto .....	1	Premature blast .....	2
Percy .....	2			Gartside No. 4 .....	1	Blown out shot explosion .....	1
Sparta .....	2			Little Muddy .....	1		
				Mt. Vernon .....	1		
				Randolph No. 1 .....	1		
Totals .....	10		10		10		10

*Non-Fatal Casualties in and about Coal Mines in the Seventh District of Illinois, for the year ending July 1, 1896.*

Date.	Name.	Age.	Occupation.	Residence— Town.	Name of Mine.	Married.	Wife and children.	Single.	Per- sonal- ly.	Character of Injury and Cause of Accident.	Time lost— days.
1895.											
July	9 Joseph Bagowoni	28	Miner	Murphysboro.	B. M. C. & I. Co. No. 4	1		1		Leg broken by falling rock.	45
"	18 Amos Barnett	43	"	DuQuoin.	Greenwood	1	6			Legs injured by falling rock	37
"	20 Mike Donovan	21	"	Sparta	Boyd's		1	1		Shoulder fractured by falling rock	30
"	23 Wiley Eubanks	35	"	DuQuoin.	Greenwood	1	5			Bruised by falling coal while mining off a standing shot	30
"	26 George Bradley	51	Timberman.	"	Brownings	1	1	1		Leg bruised, timber falling on it while re-setting	12
Aug.	19 Wm. Tibbs	48	Miner	"	"	1	5			Back bruised by falling rock	20
"	26 Geo. Lick	19	Driver	Hallidayboro.	Muddy Valley			1		Jaw broken and bruised about the breast, squeezed between trap door and pit car.	14
Oct.	5 Thomas Terry	22	"	"	"			1		Squeezed between loaded car and roof.	10
"	10 Thomas Cross	18	Miner	Nashville	Nashville No. 1	1		1		Ankle sprained and bruised by falling rock.	15
"	12 James Franks	23	Driver	Sparta	Eden		1	1		Hand mashed between mine car and rib.	30
"	12 Dan Cochran	28	Cager	Mt. Vernon	Mt. Vernon	1	1	1		Loose little finger, mashed between car and cage.	21
"	23 W. C. Blair	"	Miner	"	"	1	3			Foot mashed by falling rock.	14
"	25 E. W. Evans	50	"	DuQuoin.	Jupiter	1	5			Leg broken and hip dislocated by falling rock.	25
"	26 Leon Coleman	25	Cager	Rosboro.	"			1		Arm broken, got on the cage after it was rung off	65
Nov.	14 Joseph Basolo	30	Miner	St. Johns	Paradise	1	2			Leg broken by falling rock.	10
Dec.	3 John M. White	3	"	Murphysboro.	Harrison No. 1	1		1		Head cut by falling rock.	75
"	5 Henry Assin	20	Helper	"	B. M. C. & I. Co. No. 5	1	1			Leg broken by falling top coal.	75
"	13 E. W. Wright	44	Miner	DuQuoin.	Pope & Mifflin	1		1		Collar bone broken and bruised about the body.	60
"	14 Vincey J. Lee	24	"	Carterville.	Daws.			1		Squeezed between car and entry rib.	14
"	17 Chris. Schickedny	45	"	DuQuoin.	Horns	1	5			Bruised by being squeezed on the entry by pit cars.	7
"	17 Chris Schickedny	17	"	"	"			1		Bruised by being squeezed on the entry by pit cars.	7
"	20 J. O. Hinchcliff	24	Cager	Carterville.	Daws.			1		Toes mashed, run over by pit car.	7
1896.											
Jan.	8 John Britton	37	Miner	DuQuoin.	Excelsior	1	7			Back bruised and strained by falling rock.	60
"	10 Geo. F. Gerlach	40	"	Sparta	Gerlach	1	7			Leg broken by a fall of top coal.	90
"	10 Herman Stearnes	17	Driver	Hallidayboro.	Muddy Valley			1		Hand mashed between mine car bumpers.	90
"	13 John Allison	45	Miner	Sparta	Eden	1	7			Head cut and bruised by falling rock.	14
"	20 Charles Eubanks	21	"	DuQuoin.	Egyptian	1		1		Head and side cut and bruised by falling rock.	90
Feb.	5 Marsh Lamb	35	"	Ledford.	New Ledford	1	2			Face cut by falling rock.	10
"	11 Milton Buford	48	"	Sparta	Boyd's	1	6			Back bruised by fall of coal.	8
"	11 J. W. Dunn	31	Trackman	DuQuoin.	Jupiter	1	2			Foot and toes mashed by falling rock.	90
"	19 W. M. Foster	50	Miner	Willisville	Willis	1		1		Leg broken by fall of rock.	90
Mar.	20 Edward Brownlee	23	"	Carterville	Coulterville	1		1		Face and hands burned, blown out shot explosion	75
"	20 John Lowe	35	"	"	"	1	6			"	"
"	20 Robert Green	35	"	"	"	1	8			"	"

Month	Name	Occupation	Location	County	Age	Sex	Cause of Injury	Number of Days Lost	Number of Days Lost	Number of Days Lost
Mar.	20 Wm. Gleghorn	Miner	Coulterville	Coulterville	30	M	Face and hands burned, blown out shot explosion	1	1	30
"	20 William Brown	"	"	"	60	M	"	1	1	60
"	20 Peter Driller	"	"	"	30	M	"	1	1	30
"	27 Henry Cheers	"	"	"	48	M	"	1	1	30
"	27 R. n. Rossen	"	"	"	40	M	Hands burned by coal dust explosion	1	1	30
April	8 Philipp York	Loader	Murphysboro	Gartside No. 3	34	M	Side and back injured by falling rock	1	1	30
"	16 Logan Leek	"	DuQuoin	Pope & Mifflin	27	M	Arm broken between loaded pit ars	1	1	85
May	2 Ralph Collins	Cager	Hallidayboro	Muddy Valley	62	M	Hand and arm cut and side bruised, caused by falling coal down the shaft	1	1	28
"	3 Henry Queri.e	"	Murphysboro	B. M. C. & I. Co. No. 5	47	M	Leg broken by mule falling on him	1	1	15
"	4 Peter Jerns	Driver	"	"	22	M	Leg broken at the hip, fall, grock	1	1	65
"	7 Henry Williams	"	DuQuoin	Jupiter Valley	15	M	Back and body injured, falling top coal	1	1	30
"	9 Ben Parrish	Miner	Elkville	Muddy Valley	38	M	Arm and shoulder bruised by flying shot coal	1	1	14
"	10 John Rowatt	"	Johnston City	Lumaghi No. 2	40	M	Hand mashed between mine cars	1	1	15
"	15 John Pry	"	Tilden	Tilden	45	M	Leg broken and hip out of joint, falling rock	1	1	30
June	12 W. M. Cathard	"	Carterville	Daws	29	M	Foot mashed by falling rock	1	1	30
"	19 Robert Liddell	"	DuQuoin	Browning	32	M	Back and shoulder bruised by falling rock	1	1	30
"	23 Stranger Linge	"	"	"	30	M	"	1	1	30
Totals								28	105	1568

\* Not returned to work July 1, 1896.

† Moved away.

*Recapitulation of Non-Fatal Accidents.*

Residence.	No.	Occupation.	No.	Colliery.	No.	Cause of Accident.	No.
Carterville.....	3	Cagers.....	5	Boys.....	2	Blown out shot explosion.....	7
Conterville.....	7	Drivers.....	5	Brownings.....	3	Falling coal down shaft.....	1
DeQuinn.....	14	Machine helper.....	1	B. M. C. & I. Co. No. 4.....	2	Falling coal from shot.....	1
Elkville.....	1	Miners.....	37	B. M. C. & I. Co. No. 5.....	3	Falling top coal.....	6
Halidayboro.....	4	Timbermen.....	1	Conterville.....	7	Falling rock.....	22
Johnson City.....	2	Trackmen.....	1	Daws.....	3	Hurt by a mule.....	1
Leadport.....	1			Eden.....	2	Hurt by a timber falling.....	1
Mc. Vernon.....	2			Egyptian.....	1	Mine car and cage.....	1
Murphysboro.....	1			Excelsior.....	1	Mine cars.....	10
Nashville.....	7			Gaertside No. 3.....	1		
Rosboro.....	1			Gerlach.....	1		
Sparta.....	5			Greenwood.....	2		
St. Johns.....	1			Harrison.....	1		
Thiden.....	1			Horns.....	2		
Willisville.....	1			Jupiter.....	3		
				Lumaghi No. 2.....	2		
				Mt. Vernon.....	2		
				Muddy Valley.....	5		
				Nashville.....	1		
				New Leadford.....	1		
				Paradise.....	1		
				Pope & Mifflin.....	2		
				Ranolph No. 2.....	1		
				Tilden.....	1		
				Willis.....	1		
Totals.....	51		51		51		51

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# STATISTICAL TABLES.

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SEVENTH DISTRICT.

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*Gallatin County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, Weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	AC- CI- D'TS	PRODUCTS AND VALUES.				SUPPLIES.			
	Under ground.		Above ground.						Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.	
	Winter.	Summer.	Winter.	Summer.												
1	41	24	4	4	.....	M.	65	..	2	13,500	10,900	2,600	\$0 75	126	\$0 60	350
2	8	3	1	1	.....	W.	75	..		2,500	2,500		1 00	100	60	60
3	6	3	1	1	.....	..	75	..		2,000	2,000		1 00	100	60	55
4	6	3	1	1	.....	..	75	..		500	500		1 00	75	60	12
5	12	2			.....	..		..		250	250		1 00	60		6
6	12	2	1		.....	W.	75	..		1,400	1,400		1 00	100	60	20
7	12	2	1	1	.....	..	75	..		2,000	2,000		1 00	100	60	35
8	5	1	1		.....	..	75	..		1,800	1,800		1 00	95	60	35
9	5	1	1		.....	..	75	..		1,200	1,200		1 00	100	60	25
10	5	1	1		.....	..	75	..		1,200	1,200		1 00	100	60	25
..	90	46	12	8	.....	..	74	..	2	26,350	23,750	2,600				633
..	.....	.....	.....	.....	.....	.....	74	..		.....	.....	.....	\$0 88.5	956		.....

*Hamilton County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, Weekly, semi-monthly or monthly.	Per cent, gross contents of pit-car for which miner receives pay.	Fatal.	AC-CIDENTS Non-fatal.	PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.							Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	4	2	...	...	...	M.	...	...	...	300	300	...	\$1 25	60	...	2
2	3	2	...	...	...	W.	...	...	...	300	300	...	1 25	70	...	2
3	4	2	1	1	...	...	...	...	...	400	400	...	1 25	70	...	2
..	11	7	1	1	...	...	...	...	...	1,000	1,000	...	...	...	...	12
..	...	...	...	...	...	...	...	...	...	...	...	...	\$1 25	63 1/2	...	...

*Jefferson County—Seventh District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Mount Vernon Coal Co. ....	Mt. Vernon....	Mt. Vernon....	S	852	4 10	2	Sh.	R. P.	H.
2	G. W. Shelton.....	Opdyke.....	Opdyke.....	L	4 1.8		.1	St.	Sur.	"
Totals (2 mines).....										
Averages.....							2.1			

*Jackson County—Seventh District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Gartside Coal Co. No. 1.....	Murphysboro.	St. Louis, Mo.	S	121	6.6	2	Sh.	R. P.	B.
2	" " No. 3.....	"	"	"	146	6.6	4	"	"	"
3	" " No. 4.....	"	"	"	148	6.6	5	"	"	"
4	Big Muddy C. & I. Co. No. 4	"	Murphysboro.	"	150	6.6	15.5	"	"	M.
5	" " No. 5	"	"	"	150	6.6	27	"	"	"
6	B. M. C. & I. Co., Harrison sh	"	"	"	150	6.6	12	"	"	"
7	Daniel P. Willis.....	"	"	"	130	7	2	"	"	H.
8	E. E. Poole.....	"	"	"	60	2.8	0.5	"	"	"
9	Evals & Brush.....	Carbondale...	Carbondale...	"	30	3.6	0.5	"	"	"
10	John C. Starnes.....	"	"	"	20	"	"	"	"	"
11	W. C. Beard.....	"	"	"	15	7.5	"	D.	"	"
12	Chas. Ritchie.....	"	"	"	12	7.6	"	Sh.	"	"
13	J. C. Preston.....	"	"	"	35	6	"	"	"	"
14	Sato Coal & Mining Co. No. 1	Sato.....	Sato.....	S	49	6.3	0.5	"	"	"
15	M'ysboro B. M. C. Co. No. 1	"	Murphysboro.	"	10	6	"	Sl.	"	"
16	Argus & Barton.....	"	Sato.....	L	10	6	"	"	"	"
17	James & Henson.....	"	"	"	10	6	"	"	"	"
18	Wining Coal Mining Co.....	"	"	"	3.6	"	"	"	"	"
19	B. M. C. & C. Co.....	Desoto.....	Desoto.....	S	60	9	6	Sh.	"	"
20	Henry King.....	Campbell Hill	Campbell Hill	L	3	"	"	D.	"	"
21	George Jubart.....	Ora.....	Ora.....	"	3.6	"	"	"	"	"
22	T. L. Bailey.....	Makanda.....	Makanda.....	"	85	3	"	Sh.	"	"
23	M. V. M. & Mfg. Co.....	Hallidayboro.	Hallidayboro.	S	166	8	18	"	"	"
Totals (23 mines).....										
Averages.....							95.00			

## Jefferson County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-D'TS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	48	48	6	6	3	M.	100	1	2	10,000	6,200	3,800	\$1 00	125	\$0 60	300
2	5	12	.....	.....	.....	W.	.....	.....	.....	100	100	.....	1 50	125	.....	2
	53	50	6	6	3	.....	.....	1	2	10,100	6,300	3,800	.....	.....	.....	302
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1.00	125	.....	.....

## Jackson County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	AC-CI-D'TS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.					Fatal.	Non fatal.	Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	19	14	4	4	.....	S. M.	.....	.....	1	25,148	17,604	7,544	\$1 10	275	\$0 50	225
2	39	38	10	10	.....	.....	.....	.....	.....	39,465	28,688	9,777	1 15	135	50	450
3	48	46	10	10	.....	.....	.....	1	2	53,095	39,837	13,258	1 15	250	50	500
4	150	150	12	12	.....	.....	.....	.....	.....	100,515	55,561	44,954	1 15	156	50	520
5	224	224	20	20	.....	.....	.....	.....	.....	174,629	97,231	77,398	1 15	268	50	1,600
6	84	84	17	17	.....	.....	.....	.....	1	79,313	50,939	28,374	1 15	162	50	746
7	26	16	5	4	.....	W.	.....	.....	.....	17,985	6,245	11,740	1 00	313	50	50
8	14	5	2	1	.....	.....	100	.....	.....	12,673	1,960	713	1 00	200	40	20
9	5	3	1	1	.....	.....	.....	.....	.....	12,500	1,800	700	1 00	149	50	90
10	3	3	1	1	.....	.....	.....	.....	.....	.....	.....	.....	1 00	.....	.....	16
11	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 00	.....	.....	.....
12	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 00	.....	.....	.....
13	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 00	.....	.....	.....
14	40	40	5	5	.....	M.	.....	.....	.....	20,970	1,663	19,307	80	177	60	875
15	44	21	5	4	.....	S. M.	.....	.....	.....	10,000	7,000	3,000	1 00	111	60	350
16	3	2	.....	.....	.....	W.	.....	.....	.....	625	.....	.....	1 00	.....	.....	32
17	3	2	.....	.....	.....	.....	.....	.....	.....	300	.....	.....	1 00	75	.....	10
18	6	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
19	100	70	12	12	.....	S. M.	.....	1	.....	64,750	52,876	11,874	65	148	60	2,000
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
21	2	.....	.....	.....	.....	.....	.....	.....	.....	100	.....	.....	1 20	60	.....	8
22	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100
23	180	147	20	18	5	M.	.....	.....	5	180,316	111,262	69,054	70	220	60	5,600
24	996	878	124	120	10	.....	.....	2	11	771,384	448,012	297,693	\$0 97	.....	.....	12,240
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	176	.....	.....

*Johnson County—Seventh District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine, or both.
1	Dill & Wallace, No. 1.....	New Burnside	New Burnside	L.	....	3.4	.15	D.	R. P.	H.
2	No. 2.....	"	"	"	....	3.4	.1	"	"	"
3	McMicheal & King.....	"	"	"	....	3.4	.12	"	"	"
4	Hampton & Son.....	"	"	"	....	3.4	.05	"	"	"
5	William Felkins.....	"	"	"	....	3.4	.05	"	"	"
6	Bainbrige & Edwards.....	"	"	"	....	3.4	.08	"	"	"
Totals (6 mines) .....							.63			
Averages .....										

*Johnson County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit car for which miner receives pay.	Accidents.	PRODUCTS AND VALUES.			SUPPLIES.			
	Under ground.		Above ground.						Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.											
1	3	2	1	.....	.....	W.	75	.....	300	300	.....	\$1 00	90	.....	8
2	3	3	.....	.....	1	.....	75	.....	200	200	.....	1 00	70	.....	11
3	3	3	1	.....	.....	.....	75	.....	400	400	.....	1 00	110	.....	15
4	3	3	.....	.....	.....	.....	75	.....	100	100	.....	1 00	60	.....	5
5	3	3	.....	.....	.....	.....	75	.....	100	100	.....	1 00	60	.....	5
6	3	3	.....	.....	.....	.....	75	.....	150	150	.....	1 00	70	.....	2
	15	12	2	.....	1	.....	.....	.....	1,250	1,250	.....	.....	.....	.....	46
	.....	.....	.....	.....	.....	.....	75	.....	.....	.....	.....	\$1 00	76½	.....	.....

*Perry County—Seventh District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	DuQ. U. C. Co., Browning..	DuQuoin.....	DuQuoin.....	Sh.	45	6.6	12	Sh.	R. P.	H.
2	.. .. Enterprise..	.. ..	.. ..	..	90	6.6	12	..	..	..
3	.. .. Egyptian...	.. ..	.. ..	..	90	6.6	15	..	..	..
4	.. .. Excelsior..	.. ..	.. ..	..	65	6.6	3	..	..	..
5	Jupiter Mining Co., No. 1...	.. ..	.. ..	..	37	6	5.5	..	..	..
6	Horns Colliery Co.....	.. ..	.. ..	..	80	7	12	..	..	..
7	Pope Mining Co.....	.. ..	.. ..	..	37	6	2	..	..	..
8	Greenwood Davis Coal Co...	.. ..	.. ..	..	44	6.2	4	..	..	..
9	Superior Coal & Mining Co.	.. ..	.. ..	..	62	6	.....	..	..	..
10	Thos. J. Howell.....	.. ..	.. ..	L.	25	6	.17	Sh.	..	..
11	J. N. Howell.....	.. ..	.. ..	..	28	6.6	.01	Sh.	..	..
12	Ill. Cent. Coal & Salt Co....	St. Johns. ....	St. Johns.....	Sh.	300	9	10	Sh.	..	..
13	Perry County Coal Min'g Co.	.. ..	DuQuoin.....	..	72	6	7.5	Sh.	..	..
14	Sun Coal & Coke Co.....	Sunfield .....	Sunfield .....	..	80	5.5	5	..	..	..
15	Tamaroa Colliery Co.....	Tamaroa.....	Tamaroa.....	..	200	5.6	12	..	..	..
16	Cicero Barber & Bro.....	.. ..	.. ..	..	200	5.6	12	..	..	..
17	G. W. Brown.....	Pineknayville	Pineknayville	..	90	6	1.2	..	..	..
18	Turner & Faust Bros.....	.. ..	.. ..	L.	86	6.6	.5	..	..	..
19	Wood Bros.....	.. ..	.. ..	..	35	6	.33	..	..	..
20	Jener & Davis.....	.. ..	.. ..	..	25	6	.33	..	..	..
21	Brown & Barwell.....	Conant.....	Cutter .....	Sh.	72	6	4	..	..	..
22	Fred Rosendorf.....	Cutler.....	.. ..	L.	40	5.5	.01	..	..	..
23	Peter Glass.....	Denmark.....	Denmark.....	..	20	5.5	.....	..	..	..
24	Willis Coal & Mining Co....	Willisville....	St. Louis, Mo..	Sh.	80	6	6	..	..	B.
Totals (24 mines).....				..	..	..	103.65	..	..	..
Averages .....				..	..	..	..	..	..	..

## Perry County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	Acci- -DENTS.	PRODUCTS AND VALUES.				SUPPLIES.			
	Under ground.	Summer.	Winter.	Summer.					Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kege of powder used during the year.	
1	125	91	16	16	7	M.	62	1	80,000	52,000	28,000	80 75	175	80	2,450	
2	93	73	10	10	4	"	63	5	60,000	35,000	24,000	75	150	50	1,500	
3	66	63	13	10	3	"	60	1	100,000	100,000	.....	65	230	50	2,500	
4	39	31	9	9	1	"	60	1	12,340	10,828	1,512	70	130	40	449	
5	112	80	20	15	5	"	60	3	67,844	50,883	16,961	80	126	40	1,797	
6	140	84	14	11	5	"	60	3	72,300	57,890	14,410	65	140	40	1,900	
7	38	39	7	7	.....	"	100	1	24,725	15,724	6,002	70	190	40	678	
8	80	65	12	14	.....	"	60	3	32,976	23,514	9,422	80	64	40	572	
9	1	1	1	1	.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	
10	1	1	1	1	.....	W.	.....	.....	1,322	182	1,140	1 25	150	50	40	
11	2	2	1	4	.....	"	.....	.....	500	500	.....	1 00	100	.....	12	
12	126	123	23	23	6	M.	69	1	99,800	58,462	41,347	75	167	40	2,800	
13	58	37	9	9	.....	S.-M.	.....	.....	39,509	28,317	11,183	65	186	40	800	
14	48	36	7	7	2	"	.....	.....	39,178	29,178	1,000	65	194	40	1,200	
15	26	18	3	3	.....	"	100	1	12,000	10,000	2,000	65	120	40	400	
16	25	17	3	3	.....	"	100	.....	11,000	9,000	2,000	65	120	40	400	
17	20	20	6	6	.....	"	100	.....	11,672	13,335	1,337	57 1/2	180	50	500	
18	6	4	2	2	.....	W.	100	.....	2,998	2,998	.....	1 00	200	40	102	
19	5	2	1	1	.....	"	.....	.....	1,931	1,931	.....	1 00	200	.....	65	
20	5	2	1	1	.....	"	.....	.....	1,809	1,800	.....	1 00	200	.....	40	
21	25	25	4	4	.....	S.-M.	.....	.....	27,000	18,000	9,000	62 1/2	200	60	600	
22	2	2	1	1	.....	"	.....	.....	550	300	250	1 00	135	.....	15	
23	2	2	.....	.....	.....	"	.....	.....	.....	.....	.....	1 00	.....	.....	5	
24	51	47	9	9	.....	S.-M.	.....	1	36,142	7,000	29,142	63	305	50	900	
..	1,099	865	167	161	33	.....	2 24	.....	726,507	527,792	198,715	.....	.....	.....	19,935	
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80.716	162	\$0.444	.....	

*Randolph County—Seventh District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local Mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	V. & G. Coal Co., Eden No. 1	Sparta	Sparta	S.	140 6	8	Sh.	P. R.	H.	
2	Boyd Coal & Coke Co., No. 1	"	"	"	80 6	4	"	"	"	
3	George F. Gerlach	"	"	L.	35 5 6	2 50	"	"	"	
4	Coulterville Mining Co.	Coulterville	Coulterville	S.	370 6	2 50	"	"	"	
5	Tilden Mining Co.	Tilden	Tilden	S.	180 6	2 50	"	"	"	
6	Wm. Goalby & Sons, No. 1.	Percy	Percy	"	76 6	1 50	"	"	"	
7	No. 2.	"	"	"	95 4 10	1 50	"	"	"	
8	Wm. Barard	"	Chester	"	82 6	1 33	"	"	"	
9	Little Muddy Coal Co.	"	Percy	"	65 6	3	"	"	"	
10	John Myers	"	"	L.	15 6	.01	"	"	"	
11	Dietric Stramyer	"	"	"	20 6	.50	"	"	"	
12	Randolph C. & C. Co., No. 1	"	St. Louis, Mo.	S.	30 5	3	"	"	"	
13	No. 2	Rosboro	"	"	32 6	5	"	"	"	
14	No. 3	Sparta	"	"	37 5 2	.50	"	"	"	
15	George Stanway	Blair	Blair	L.	22 5	.33	"	"	"	
16	Enterprise Coal Co.	"	"	"	35 6	.33	"	"	"	
Total (16 mines)						33				
Averages										



*Randolph County, 1896—Concluded.*

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid. Weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	Accidents.	PRODUCTS AND VALUES.				Supplies.			
	Under ground.		Above ground.						Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.		Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	65	41	8	5	1	S.-M.	80	2	42,700	12,080	30,620	\$0 60	120	\$0 60	1,833	
2	42	30	5	5	.....	.....	80	1	23,913	.....	.....	.....	217	50	1,160	
3	5	3	1	1	.....	M.	.....	.....	1,400	1,400	.....	1 00	180	50	35	
4	41	35	7	7	.....	.....	90	1	24,948	2,680	22,268	1 00	200	80	680	
5	18	12	3	2	.....	.....	90	1	14,600	14,000	600	70	175	60	400	
6	24	19	4	3	.....	S.-M.	80	.....	10,614	9,814	800	65	226	40	346	
7	7	7	.....	.....	.....	.....	80	.....	3,292	2,992	300	70	102	40	126	
8	17	10	.....	.....	.....	.....	100	.....	7,250	4,150	3,100	75	95	50	315	
9	39	33	3	3	.....	.....	.....	1	13,984	11,889	2,095	55	127	50	495	
10	.....	.....	.....	.....	.....	.....	.....	.....	150	100	50	1 00	45	.....	5	
11	.....	.....	.....	.....	.....	.....	.....	.....	1,000	1,000	.....	85	150	.....	27	
12	42	29	4	3	.....	M.	80	1	16,290	12,960	3,240	75	90	40	430	
13	47	31	16	15	1	.....	.....	1	30,000	23,000	7,000	75	135	50	1,270	
14	12	9	3	2	.....	.....	70	.....	2,800	2,000	800	75	60	40	115	
15	5	3	1	.....	.....	.....	.....	.....	2,000	2,000	.....	75	190	.....	50	
16	5	3	1	.....	.....	.....	.....	.....	1,987	1,987	.....	75	190	.....	45	
									202,838	102,052	70,873	.....	.....	.....	7,332	
									.....	.....	.....	\$0 70.2	144	.....	.....	

*Saline County—Seventh District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post-office address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	Davenport Coal Co.....	Ledford.....	Harrisburg...	S.	144 8	5	Sh.	R. P.	H.	
2	Wm. Butler.....	New Castle.....	New Castle.....	L.	62 3.4	5	D.	"	"	
3	John Hawkins.....	"	"	"	27 3.4	1	Sh.	"	"	
4	Wartfield & Reily.....	Ledford.....	Ledford.....	"	20 4.8	12	"	"	"	
5	E. E. Hubbard.....	"	"	"	23 4.8	"	"	"	"	
6	John A. Moody, Monro M.....	Harrisburg.....	Harrisburg.....	"	13 4.10	5	"	"	"	
7	J. W. Ingram.....	"	"	"	21 4.10	"	"	"	"	
8	Noah Stiff.....	S. America.....	S. America.....	"	15 5	1	D.	"	"	
9	H. P. Sittig.....	Stonefort.....	Stonefort.....	"	40 3.4	5	"	"	"	
10	Reily & Hall.....	Cottage G. Tp.....	Equality.....	"	35 4.6	.05	"	"	"	
11	Slaters & Lloyd.....	"	"	"	25 4.6	1	"	"	"	
12	F. M. Jarell.....	"	"	"	20 4	.05	"	"	"	
13	J. J. Berry & Bro.....	"	"	"	18 4	.05	"	"	"	
14	Brightner & Mossman.....	"	"	"	30 4	.33	Sh.	"	"	
15	Eldorado Coal Co.....	Brooklyn.....	Eldorado.....	"	50 4.6	.5	"	"	"	
Totals (16 mines).....							10.18			
Averages.....										

*Washington County—Seventh District—1896.*

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Post office address of business office of Company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall, or room and pillar.	Hand or machine mine or both.
1	Hugh Murray.....	Nashville.....	Nashville.....	S.	425	5.6	6	Sh.	R. P.	H.
2	Geo. Breuggermann.....				376	5.5				
3	Adam Kuhn.....	Du Boise.....	Du Boise.....		296	5.6	2			
4	Okawville W. S. C. Co.....	Okawville.....	Okawville.....	L.	320	5.6	.5			
Totals (4 mines).....							8.2			
Averages.....										

## Saline County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	Fatal.	Non-fatal.	PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.							Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	46	39	4	4	1	S. M.	..	..	1	32,288	4,962	27,326	\$1 00	255	\$0 80	\$20
2	31	23	5	5	1	..	66	..	..	7,957	5,200	12,667	1 00	210	80	312
3	..	..	..	..	..	..	..	..	..	40	30	10	1 00	15	80	1
4	..	..	..	..	..	..	66	..	..	260	200	..	1 00	100	65	15
5	..	..	..	..	..	..	..	..	..	600	600	..	1 00	120	..	15
6	..	..	..	..	..	..	..	..	..	600	600	..	1 00	120	..	15
7	10	..	1	1	..	W.	66	..	..	750	750	..	1 00	200	65	20
8	7	..	..	..	..	..	66	..	..	1,000	1,000	..	1 00	250	65	25
9	6	..	1	1	..	..	66	..	..	200	200	..	875	90	..	5
10	3	..	..	..	..	..	..	..	..	1,100	700	400	1 00	125	..	17
11	..	..	..	..	..	..	..	..	..	200	200	..	1 00	100	60	5
12	1	..	..	..	..	..	66	..	..	400	400	..	1 00	80	60	9
13	..	..	..	..	..	..	..	..	..	160	160	..	75	55	60	6
14	..	..	..	..	..	..	..	..	..	200	200	..	1 00	80	60	4
15	..	..	1	1	..	..	..	..	..	360	360	..	1 00	100	..	5
16	4	3	1	1	..	..	66	..	..	480	480	..	1 00	60	60	14
..	127	98	14	14	2	..	..	..	1	46,535	16,132	30,403	..	..	..	1,288
..	..	..	..	..	..	..	..	..	..	..	..	..	\$0 985	..	\$0 668	..

## Washington County, 1896—Concluded.

Number of mine.	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed underground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit car for which miner receives pay.	AC-CIDENTS		PRODUCTS AND VALUES.					SUPPLIES.	
	Under ground.		Above ground.					Fatal.	Non-fatal.	Total number of tons of coal produced. All grades.	Total number of tons of lump coal produced.	Total number or tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	44	33	6	5	1	S. M.	100	2	21,440	5,976	15,464	\$0 85	155	\$0 70	760	
2	5	4	3	12	1	M.	60	..	10,000	8,000	2,000	65	150	50	3	
3	30	25	5	5	2	W.	..	..	..	..	..	..	..	80	75	
4	30	25	5	5	2	M.	100	1	1,920	1,920	..	1 00	125	80	1,000	
..	79	65	13	15	3	..	..	1	33,360	15,896	17,464	..	..	..	1,838	
..	..	..	..	..	..	..	..	..	..	..	..	\$0 767	143	\$0 70	..	

## Williamson County—Seventh District—1896.

Number of mine.	Name of firm, company or person operating mine, and designation of shaft.	Location of mine.	Postoffice address of business office of company.	PHYSICAL CHARACTER OF PLANT, SYSTEM OF WORKING, ACREAGE, ETC.						
				Shipping or local mine.	Depth of coal below the surface in feet.	Thickness of seam in feet and inches.	Estimated number of acres worked out during the year.	Drift, slope or shaft.	Long wall or room and pillar.	Hand or machine mine or both.
1	St. L. & B. M. C. Co., Dawes	Cartersville ...	Carbondale...	Sh.	99	9.2	20	Sh.	R. P.	H.
2	Cartersville Coal Co., Burr..	" .....	St. Louis, Mo.	"	60	10	6.50	"	"	"
3	John A. Young .....	" .....	Cartersville ...	L.	21	9.2	.33	Sl.	"	"
4	Liddle & Warren .....	" .....	" .....	"	30	9.5	.25	Sh.	"	"
5	John Reid .....	" .....	" .....	"	40	8.6	.25	"	"	"
6	Pittsburg P. G. Co. ....	Fredonia .....	Fredonia J. ....	Sh.	65	8	10	"	"	B.
7	Talby & Lawson .....	" .....	" .....	L.	30	6	.50	"	"	H.
8	Johnston & Read .....	Marion .....	Marion .....	Sh.	60	9	3	Sl.	"	"
9	S. A. Campbell .....	Spillertown ..	" .....	"	20	9	1.50	"	"	"
10	Williamson Co. Coal Co. ....	Johnston City	St. Louis, Mo.	"	150	8.4	.50	Sh.	"	"
11	E. E. Ensminger .....	Crab Orchard.	Crab Orchard	L.	"	5.6	.25	D.	"	"
12	Frank Bowen .....	" .....	" .....	"	"	5.6	.10	"	"	"
13	W. A. Chaney .....	" .....	" .....	"	"	5	.25	"	"	"
14	Geo. Nealy .....	Absher .....	Absher .....	"	"	5	.25	"	"	"
15	Robt. Schreiver .....	" .....	" .....	"	"	5	.20	St.	"	"
16	Wm. Bauwick .....	" .....	" .....	"	"	5	.20	"	"	"
17	Wm. Read .....	" .....	" .....	"	"	5	.10	"	"	"
18	Grant Ritche .....	" .....	" .....	"	"	5.6	.10	"	"	"
19	Len Ritche .....	" .....	" .....	"	10	"	.20	"	"	"
20	E. W. Motsinger .....	" .....	" .....	"	"	"	.20	"	"	"
21	Wm. Allen .....	Marion .....	Marion .....	"	2	"	.10	"	"	"
22	Jasper Read .....	" .....	" .....	"	8	8	"	"	"	"
Totals (22 mines) .....							44.78			
Averages .....										

## Williamson County, 1896—Concluded.

Number of mine	TOTAL NUMBER OF PERSONS EMPLOYED IN AND ABOUT MINE.				Number of boys under 16 years of age employed under ground.	Wages, how paid, weekly, semi-monthly or monthly.	Per cent. gross contents of pit-car for which miner receives pay.	Accidents.	Non-fatal.	PRODUCTS AND VALUES.				SUPPLIES.		
	Under ground.		Above ground.							Total number of tons of coal produced—all grades.	Total number of tons of lump coal produced.	Total number of tons of other grades produced.	Average value of lump coal at mine.	Number of days of actual operation of mine.	Cost of oil per gallon.	Kegs of powder used during the year.
	Winter.	Summer.	Winter.	Summer.												
1	160	160	29	29	3	S. M.		3	218,696	82,348	136,348	\$0 793	217	\$0 50	6,631	
2	102	102	8	8		W.	100		46,298	9,262	37,036	85	80	50	1,000	
3			1	1		W.	100		2,250	2,000	250	1 00	150	50	50	
4	4	4	1	1		W.	100		2,000			1 00	180		45	
5	4	4	1	1		W.	100		2,000			1 00	180		45	
6	79	59	11	11	5	S. M.			77,871	19,698	58,203	90	180	60	1,731	
7	5	3	1	1		W.	100		3,000	2,400	600	1 00	190	60	80	
8	71	51	7	7		M.			75,000	40,000	35,000	80	250	50	2,500	
9	27	22	4	4		W.			8,591	5,155	3,436	90	68	50	145	
10	12	26	4	4		W.	80		5,000	4,000	1,000	1 00	95	50	200	
11	5		1			W.									65	
12	2					W.									8	
13	3					W.									40	
14	5		1			W.			2,100	1,800	300	1 00	120		46	
15	4					W.										
16	3					W.										
17	3					W.										
18	4	1				S. M.										
19	3	1				M.										
20	3	1				M.										
21	3	1				M.			1,600	1,600		1 00	140		5	
22	2					W.										
..	505	449	69	67	8	.....	.....	3	444,406	168,233	272,173	.....	.....	.....	12,591	
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$0 828	159	.....	.....	



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# APPENDIX.

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# LIST OF MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

Names.	Address.
Adams, Chas. T.	Rosboro
Adams, J. M.	Wanlock
Ainsworth, Samuel S.	Taylorville
Ainsworth, Samuel Jr.	Taylorville
Ainsworth, Thomas	Taylorville
Aitken, James	Streator
Anderson, W.	Virden
Anderson, W. C.	Elmwood
Anderson, James	Ladd
Andreas, Aug.	Belleville
Angel, Hirman	Glenn
Angell, Charles	Belleville
Apblett, W. R.	Springfield
Atkinson, Edward	Streator
Atkinson, W.	Braceville
Armstrong, T. J.	Spring Valley
Archer, John	Danville
Archibald, David	Freeburg
Ax, John	Edwardsville
Axford, Thomas	Petersburg
Baker, Gustav	Streator
Back, Thomas	Cable
Bailey, William	Athens
Bailey, Joseph	Du Quoin
Bargliart, Henry	Lincoln
Barlow, Henry	Johnson City
Barnett, Oliver	Bryant
Barron, James	Cantrall
Bashong, A. W.	Danville
Barwell, John	Cutler
Bates W. H.	Winchester
Baumer, Fred.	Marquette
Bauer, Valentine	Hornshy
Baxter, William	Ladd
Beadle, Elisha	Kewanee
Beattie, John	Danville
Beatty, James	Mascoutah
Beatty, James H.	Mascoutah
Bell, Richard	Gillespie
Bell, William	Streator
Belger, John	Nilwood
Bengston, John Alfred	Galva
Bennett, James	Carbondale
Bennett, John	Mt. Vernon
Berkstresser, W. A.	Coulterville
Betts, Joseph	Belleville
Betz, Charles	DuQuoin
Bevard, John J.	Kinnundy
Beveridge, David	Sorento
Biggs, Sambel	Clark City
Biggins, James	Sorento
Bingham, Robt	O'Fallon
Birtin, Henry	Pana
Birtley, W. P.	Mt. Olive
Blake, Alfred	Hanna City
Blair, Gus	Percy
Boettcher, P. J.	New Athens
Boston, G. W.	Marion
Boston, James	DuQuoin
Bottomley, Edward	Oglesby

*Certificates of Competency.—Continued.*

Names.	Address.
Bottomly, John.....	Oglesby.....
Bowers, Robert.....	Wenona.....
Bowie, James.....	Braidwood.....
Brackee, James A.....	Greenville.....
Brandelinger, F.....	Belleville.....
Brockhouse, Samuel.....	Spartan.....
Brigham, Wm.....	O'Fallon.....
Brown, John.....	Glen Carbon.....
Brown, W. J.....	Carbon Hill.....
Brown, F. M.....	Farmington.....
Browning, J. M.....	DuQuoin.....
Brueggeman, George.....	Belleville.....
Buhner, John.....	St. John.....
Buhner, Benj.....	Centralia.....
Bundy, John.....	Streator.....
Burke, George.....	Peru.....
Burkhart, J. B.....	Mt. Olive.....
Cainns, John.....	Moweaqua.....
Calheart, Mathew.....	Tilden.....
Cameron, David.....	Pana.....
Campbell, Wm.....	Sandoval.....
Canfield, R. A.....	Madisonville, Ky.....
Carson, J. H.....	O'Fallon.....
Carter, Charles.....	Birkner.....
Carter, George.....	Birkner.....
Carroll, John.....	O'Fallon.....
Chalderton, John.....	Birkner.....
Cherry, John T.....	Seatonville.....
Cherry, James.....	Seatonville.....
Checklin, David.....	Reed City.....
Chivers, Joseph.....	Spring Valley.....
Christie, Dave.....	Murphysboro.....
Church, Henry M.....	Marissa.....
Clark, Martin.....	Decatur.....
Clark, Muntin.....	Braidwood.....
Clark, Thomas.....	Decatur.....
Clelland, Robert.....	Braidwood.....
Clifford, Michael.....	Kewanee.....
Coar, Firman.....	Worden.....
Collier, Frank J.....	Bartonville.....
Collins, R. J.....	O'Fallon.....
Condis, Maleohn.....	Spring Valley.....
Conity, Patrick.....	DuQuoin.....
Cooper, Charles.....	Nilwood.....
Cook, Robinson.....	Auburn.....
Conrad, William.....	Freeburg.....
Coston, George.....	Grape Creek.....
Cowell, Wm.....	Assumption.....
Crane, John E.....	Murphysboro.....
Craine, B. S.....	Murphysboro.....
Crampton, Ed.....	Murphysboro.....
Crane, J. E.....	Virden.....
Crankshaw, Thomas.....	Grape Creek.....
Crankshaw, William.....	Decatur.....
Creighton, Robert.....	Braidwood.....
Cruikshanks, John.....	Farmington.....
Cruikshanks, Wm.....	Middle Grove.....
Cryer, J. T.....	Spring Valley.....
Cumming, A. B.....	Spartan.....
Cumming, James P.....	Spartan.....
Cumming, John P.....	Braceville.....
Cumming, T. S.....	Belleville.....
Cumming, D. H.....	Gardner.....
Cunningham, T.....	Carlinville.....
Cunningnam, C.....	Springfield.....
Daezner, Anton.....	Glen Carbon.....
Dale, Henry.....	Murphysboro.....
Dale, John.....	Fredonia.....
Daniels, James.....	Belleville.....
Daniels, Samuel.....	Belleville.....
Danney, Wm.....	Lincoln.....
Davis, Caleb.....	Collinsville.....
Davis, J. H.....	Cuba.....
Davis, Thomas.....	Dumfermline.....
Davis, P. J.....	Perry.....
Davis, William.....	Litchfield.....

*Certificates of Competency.—Continued.*

Names.	Address.
Davison, W.	DuQuoin.
Davidson, James.	Sparta.
Dawson, Richard.	Athens.
Deans, Henry.	Percy.
Denny, John J.	Springfield.
Devlin, Henry.	Toluca.
Devlin, Thomas.	Spring Valley.
Diamond, Peter.	DuQuoin.
Dick, Robert.	DuQuoin.
Dickenson, J. E.	Belleville.
Dickerson, J. S.	Westville.
Dixon, John S.	Pana.
Dodd, William.	Pottstown.
Dodge, H. W.	St. David.
Donahoe, Jas.	Cartersville.
Donaldson, Wm.	Kangley.
Donaldson, J. W.	Peoria.
Donley, James.	Cartersville.
Doughty, James.	Westville.
Dougherty, Dan.	Virginia.
Dowell, Thomas.	Muddy Valley.
Downing, T.	Briar Bluff.
Duddey, John.	Pana.
Dudek, John.	Kimmunity.
Duffner, J. W.	Belleville.
Duncan, Charles.	Galva.
Dunlap, John.	Odin.
Durkin, Mike.	DuQuoin.
Edwards, S. E.	Centralia.
Edwards, Thomas.	Coalville.
Ehrnest, Frank A.	Wesley.
Eller, William.	Edwardsville.
Emery, Charles.	Danville.
Emery, Joseph.	Belleville.
English, Ralph.	Virden.
English, Thomas.	Streator.
Evans, George.	Lincoln.
Evans, John Mine.	LaSalle.
Evans, John Owen.	O Fallon.
Evans, John O.	Caseyville.
Evans, William.	St. David.
Evans, John O. Jr.	Caseyville.
Fagan, Michael.	Spring Valley.
Fagan Patrick.	Decatur.
Fairley, James.	Cambridge.
Falsetti, John B.	Fairmount.
Farrand, Wm.	Springfield.
Fellows, Edward.	Streator.
Ferguson, John.	Chenoo.
Ferguson, Walter.	Braidwood.
Folker, John.	Danville.
Finfrock, M. M.	Pana.
Fleming, James.	Decatur.
Fleming, Jacob.	Kewanee.
Fletcher, John.	LaSalle.
Fletcher, John J.	Collinsville.
Fletcher, T. J.	Collinsville.
Fletcher, William.	Collinsville.
Fohl, Bernard.	Belleville.
Foley, Geo.	LaLalle.
Foley, W. E.	Mapleton.
Forsythe, Peter.	Centralia.
Forsythe, Robert.	Murphysboro.
Foster, W.	Lincoln.
Francis, T. S.	Braidwood.
Frazer, Wm. H.	Danville.
Franken, Benard.	Lincoln.
Freer, James.	Peoria.
Fritz, W.	Breese.
Gaffigan, W.	Petersburg.
Garrity, John.	Braidwood.
Gaul, Henry J.	Belleville.
Gibson, Mike.	Spring Valley.
Gilbert, Edw.	Niantic.
Giles, William.	Gillespie.

*Certificates of Competency.—Continued.*

Names.	Address.
Gilchrist, John W.	Gilchrist.
Gill, Philip.	Gilchrist.
Glass, William H.	Edwardsville.
Goalby, John T.	Belleville.
Goalby, Wm. H.	Percy.
Goddard, Ben. B.	DuQuoin.
Goddard, Wm.	DuQuoin.
Godler, Wm.	Cuba.
Golden, George.	Springfield.
Golden, William D.	Springfield.
Goodall, George.	Assumption.
Grabuck, R. H.	Staunton.
Graham, Hirman.	Virden.
Graham, John W.	Dunfermline.
Graham, Louis.	Jacksonville.
Graham, Wm.	Virden.
Gratz, Gottlieb.	Hornsby.
Granlick Jul. M.	Belleville.
Grave, Peter.	Collinsville.
Gray, Thomas R.	Springfield.
Green, Arthur.	Braceville.
Green, Joseph.	Marissa.
Green, Robert.	Springfield.
Greenwood, J. R.	Edinburg.
Greenwood, Robt.	DuQuoin.
Groom, John.	Belleville.
Grosspitch, August.	Belleville.
Guiney, James Thompson.	Carbon Hill.
Haddeek, Joseph Jr.	Sherrard.
Haddow, Theo.	Pana.
Hagerton, Jos.	St. John.
Hale, George.	Ladd.
Hall, Matthew.	Braceville.
Hainswell, Daniel.	Lenzburg.
Hamilton, T.	Nashville.
Hanley, John H.	Petersburg.
Harding, Enos.	Birkner.
Harding, Joe H.	Troy.
Harding, Thomas T.	Danville.
Harding, William.	Lebanon.
Harkes, William.	Coal City.
Harrison, Earnest.	Streator.
Harrison, John.	Virden.
Harrison, John.	Odin.
Harrison, William.	Murphysboro.
Harrop, James T.	Seatonville.
Hartman, Frank.	Murphysboro.
Hauck, Fred.	Glen Carbon.
Hays, Henry.	Streator.
Hebenstreet, B.	Staunton.
Hebenstreet, J. P.	Staunton.
Helfrick Henry.	Rentchler.
Henderson, J.	Coal City.
Henderson, Thomas.	DuQuoin.
Henley, Richard.	Niantie.
Heppard, George.	Tilden.
Henry, Frederick.	Kewanee.
Henry, John T.	Pontiac.
Henry, Philip.	Kewanee.
Heryst, James.	Spring Valley.
Hetherington, B. M.	LaSalle.
Hickey, John.	Springfield.
Hill, Marshall.	Cartersville.
Hillery, Edward.	Colchester.
Hoffman, John.	DuQuoin.
Holmes, Thomas T.	Lincoln.
Huston, Robert.	S. arta.
Howell, Thomas H.	DuQuoin.
Howell, D. J.	DuQuoin.
Hoys, James.	Seatonville.
Hoys, Wm.	Braidwood.
Hudson, Thomas.	Etherly.
Hughes, James.	Braidwood.
Hughes, John.	Braidwood.
Hughes, H. J.	Litchfield.
Humme, J. A.	Hillary.
Hummer, Henry.	Breese.
Humphreys E.	Murphysboro.

*Certificates of Competency.—Continued.*

Names.	Address.
Iberson, James.....	Athens.....
Issinghaus, Wm.....	Lebanon.....
Izatt, William.....	Litchfield.....
Jacobson, C. P.....	St. David.....
James, John.....	Mt. Olive.....
James, Jonah.....	Grape Creek.....
Jaques, William.....	Belleville.....
Jeffery, Peter.....	Cartersville.....
Jefford, Thos. Henry.....	Kingston.....
Jenkins, Alexander.....	Dunfermline.....
Jerremire, Wm. M.....	DuQuoin.....
John, Evans.....	Barclay.....
Jolley, Thos.....	Collinsville.....
Jones, Charles.....	Marissa.....
Jones, David.....	Marissa.....
Jones, D. S.....	Taylorville.....
Jones, Edward.....	Oglesby.....
Jones, John H.....	DuQuoin.....
Jones, Logan.....	Marissa.....
Jones, T. L.....	Ladd.....
Jones, Wm.....	Marissa.....
Jones, Wm. E.....	Sheffield.....
Jones, Wm. E.....	Wesley City.....
Jones, Wm. M.....	Tamaroa.....
Jordon, Robert.....	Streator.....
Kahle, Jos.....	Counterville.....
Kane, Charles H.....	Dunfermline.....
Karrall, Edgar.....	Westerville.....
Keating, James A.....	Streator.....
Keay, A. H.....	Seatonville.....
Keay, John.....	Springfield.....
Keefer, Wm.....	Danville.....
Keil, Matthew.....	DuBois.....
Kelly, Bernard.....	Litchfield.....
Kelly, D. J.....	Carbon Hill.....
Kelly, Frank S.....	Centraha.....
Kelly, Joe George.....	Braidwood.....
Kelly, Robert D.....	Carbon Hill.....
Kempper, Henry.....	Gillespie.....
Kerr, John.....	Rushville.....
Kidd, Alexander.....	Oglesby.....
Kidd, Andrew.....	Wenona.....
Kidd, W.....	Ridge Prairie.....
Keel, Peter.....	DuBois.....
Kienbrish, D.....	Edwards Station.....
Kirby, James.....	Tallula.....
Kirchner, Frank.....	Belleville.....
Klingenfus, Otto.....	Mascoutah.....
Kloefer, Joseph.....	Coffeen.....
Kuies, Henry.....	Breese.....
Kramer, Anthony.....	Sato.....
Krantz, Jacob.....	Belleville.....
Kortkamp, Wm.....	Hillsboro.....
Laesser, Adolph.....	Belleville.....
Lander, Alex.....	Cartersville.....
Large, James M.....	Athens.....
Laws, James M.....	Cuba.....
Lawson, John.....	Mt. Olive.....
Lawson, Thos.....	Lake Creek.....
Lee, Robert.....	Cable.....
Lee, Shelcross G.....	Canton.....
Leming, W. C.....	Sato.....
Lettsam, Wm.....	Carbon Hill.....
Lettsam, Absalom.....	Carbon Hill.....
Lewis, James.....	Bryant.....
Lewis, William.....	Streator.....
Lindley, Richard.....	Ridge Prairie.....
Lindsay, John O.....	DuQuoin.....
Linsky, P. J.....	Braidwood.....
Lister, James H.....	Peters Station.....
Little, Thomas.....	Murphysboro.....
Lloyd, David.....	Pawnee.....
Lloyd, John.....	Danville.....
Lloyd, Thomas.....	Rentchler.....
Logan, Thomas J.....	Streator.....

*Certificates of Competency.—Continued.*

Names.	Address.
Long, Thos.....	Wanlock.....
Lord, J. S.....	Springfield.....
Love, John W.....	Carbon Hill.....
Lowery, Frank.....	Orchard Mines.....
Lumaghi, Joseph.....	Collinsville.....
Lumaghi, Louis.....	Collinsville.....
Macke, P. H.....	Ledford.....
Malcolm, W. J.....	Braceville.....
Malloy, Henry E.....	Danville.....
Malby, William.....	Braidwood.....
Marland, John.....	Wenona.....
Martin, George.....	Farmington.....
Mason, Eli.....	Springfield.....
Mason, Mark Jr.....	Sato.....
Massie, John G.....	Marissa.....
Matthews, W. S.....	Kinnamudy.....
Maxwell, Angus.....	Girard.....
Mays, John F.....	Catlin.....
Meadill, Duncan.....	LaSalle.....
Mendill, Duncan.....	Oglesby.....
Meehan, Patrick.....	Breeds.....
Meehan, Peter.....	Williamsville.....
Melburn, Thomas.....	Laceyville.....
Middleton, J. S.....	Sandoval.....
Michael, Lewis.....	Belleville.....
Michael, Otto.....	Belleville.....
Millard, John.....	Peoria.....
Miller, Hugh.....	Coal City.....
Miller, Wm.....	Lenzburg.....
Milem, John.....	Morris.....
Mills, T. J.....	Cable.....
Mitchell, Thomas J.....	Pana.....
Moffat, R. E.....	Percy.....
Moffatt, Thomas.....	Percy.....
Monaghan, Edw.....	Carbon Hill.....
Morland, John Jr.....	Minonk.....
Morrin, Jeremiah.....	Danville.....
Morrin, D. A.....	Danville.....
Morgan, George.....	Springfield.....
Morgan, Joseph.....	Streator.....
Morris, G. W.....	Lebanon.....
Morris, James H.....	Nashville.....
Morris, P. W.....	Roanoke.....
Morris, Wm. M.....	Belleville.....
Morrison, D. H.....	Girard.....
Morton, Andrew.....	Peoria.....
Morton, Robert.....	Virginia.....
Murphy, Jerry.....	Chatham.....
Murphy, John.....	Braidwood.....
Murphy, Patrick.....	Springfield.....
Murray, David.....	Sparta.....
Murray, Hugh.....	Sparta.....
Murray J. H.....	Galva.....
McAllister, Hector.....	Glenburn.....
McCleary, John.....	Greenview.....
McCl-er, James.....	Kangley.....
McClintock, John.....	Murphysboro.....
McFadden, Jos.....	Danville.....
McFarland, Wm. A.....	Edwardsville.....
McDonald, Robert.....	Streator.....
McDonald, William.....	Braidwood.....
McGeachin, Robt.....	Sorento.....
McGinnis, John.....	Springfield.....
McGonagil, John.....	Murphysboro.....
McGondigall, J.....	Marissa.....
McGunigal, Bernard.....	Spring Valley.....
McKean, Issac.....	Coal City.....
McKeown, Frank.....	Decatur.....
McKernan, James.....	Collinsville.....
McKellop, Donald.....	Carbon Hill.....
McLean, Robert.....	Girard.....
McManamane, P. F.....	Spring Valley.....
McMorrow, Michael.....	Farmington.....
McMath, George.....	Carterville.....
McWurtie, A.....	Bryden.....

*Certificates of Competency.—Continued.*

Names.	Address.
Nael, Reese.....	Kangley.....
Neal, Albert M.....	Murphysboro.....
Neal, William.....	Murphysboro.....
Needles, Thad.....	Glenburn.....
Neil, Peter.....	Banker Hill.....
Newman, H. T.....	Springfield.....
Newsman, John.....	Kingston.....
Newsman, Richard.....	Orchard Mines.....
Newsom, Thomas.....	Kingston Mines.....
Nesbet, Chas.....	Millstadt.....
Nevenor, John.....	Birkner.....
Nicholson, Geo. A.....	Cuba.....
Nicholson, William.....	Cuba.....
Nold, Fred.....	Freeburg.....
Nordeen, Peter.....	Galva.....
O'Brien, John J.....	Marquette.....
O'Brien, Patrick J.....	Springfield.....
O'Brien, William.....	Pana.....
O'Leary, John.....	Marquette.....
Opie, William.....	Sandoval.....
Parker, Albert.....	Collinsville.....
Patchet, John.....	Murphysboro.....
Patterson, J. C.....	Assumption.....
Pearl, John.....	Braidwood.....
Peter, J. D.....	Murphysboro.....
Petteer, Moses.....	Spring Valley.....
Pickett, Robert.....	Canton.....
Picton, Joseph.....	Farmington.....
Pierce, William.....	Edinburg.....
Pool, Edgar.....	Murphysboro.....
Potter, George.....	Mapleton.....
Postle, John.....	Gardner.....
Powell, Albert A.....	Belleville.....
Powell, Evans.....	Murphysboro.....
Powell, David.....	Braceville.....
Powell, Thos. H.....	Belleville.....
Powell, Samuel.....	Pontiac.....
Prince, Thomas.....	Gillespie.....
Pryce, John M.....	Coal City.....
Pugh, Daniel.....	St. John.....
Pullen, Charles.....	Sorento.....
Purcell, Thomas.....	Forris.....
Raby, Robb A.....	Cuba.....
Radford, Thomas.....	Bloomington.....
Radford, Wm.....	Cuba.....
Rae, Robert.....	Braidwood.....
Ramsay, C. J.....	Mt. Olive.....
Ramsay, Richard.....	Braceville.....
Randle, Jesse.....	Birkner.....
Rauth, John.....	Belleville.....
Rasmussen, James E.....	O'Fallon.....
Reagan, Daniel.....	Muddy Valley.....
Redyard, Jno.....	Odin.....
Reed, Wm.....	Girard.....
Reese, Daniel.....	Danville.....
Reed, Andrew.....	Springfield.....
Reed, Jasper.....	Marion.....
Reilly, Edward.....	Danville.....
Reimann, John.....	Belleville.....
Rdmison, Henry.....	St. John.....
Reynolds, William.....	East Peoria.....
Rhodes, Jefferson.....	Pana.....
Richardson, Joel Sr.....	Litchfield.....
Ridgely, O. S.....	Mt. Olive.....
Ritchie Alexander Sr.....	Trenton.....
Ritchie, A. Jr.....	Trenton.....
Roberts, Ben D.....	Streator.....
Roberts, John D.....	Streator.....
Robinson Henry.....	Gardner.....
Rodden, John.....	Marseilles.....
Roddenburg, C.....	Belleville.....
Roe, Samuel.....	Oglesby.....
Roe, Thomas.....	Oglesby.....
Rogers, Josiah.....	Braidwood.....
Rollo, George.....	Pana.....
Rollo, John.....	Murphysboro.....

*Certificates of Competency.—Continued.*

Names.	Address.
Rollo, William.....	Pana.....
Ronold, Alex.....	Streator.....
Rookin, Thomas.....	Galesburg.....
Rosebottom, John T.....	Kingston.....
Ross, David.....	Oglesby.....
Rundle, John C.....	Colchester.....
Rutledge, Walton.....	Alton.....
Rutledge, J. J.....	Staunton.....
Ryan, James.....	Springfield.....
Ryan, Thomas W.....	N. Springfield.....
Sangrelet, Marshall.....	Glen Carbon.....
Sansome, Henry S.....	Streator.....
Sauer, Frederick.....	Belleville.....
Seafie, Wm.....	Virginia.....
Scholl, Joseph.....	Bartonville.....
Schram, Richard.....	Belleville.....
Scully, Wm. J.....	Glen Carbon.....
Scurrah, C. R.....	Baceville.....
Secor, Frederick D.....	Odin.....
Senioe, George.....	St. John.....
Sevan, Chas.....	Danville.....
Sharp, Montgomery.....	Coal City.....
Sholeen, A. S.....	Galva.....
Shields, Frank D.....	Pana.....
Shuler, Chas.....	Gilchrist.....
Sidall, John S.....	Pana.....
Sidell, James.....	Streator.....
Simkin, Samuel.....	Coalville.....
Simmons, Thos.....	Canton.....
Simpson, Isaac.....	Glen Carbon.....
Simpson, Dave.....	Spring Valley.....
Simpson, George A.....	Mt. Olive.....
Simpson, George C.....	Springfield.....
Simpson, Wm. J.....	Collinsville.....
Simpson, Thomas.....	Collinsville.....
Simpson, Thomas.....	O'Fallon.....
Sisk, A. J.....	Equality.....
Skinner, Alexander.....	Diamond.....
Skinner, David.....	Diamond.....
Skinner, John.....	Diamond.....
Skinner, John.....	Astoria.....
Sloan, Edward C.....	Wesley City.....
Small, James.....	Middle Grove.....
Smethurst, Nathan.....	Spring Valley.....
Smith, A. M.....	Sandoval.....
Smith, David P.....	Dawson.....
Smith, Felix.....	Breese.....
Smith, George A.....	Sandoval.....
Smith, James L.....	Mt. Olive.....
Smith, James L.....	Riverton.....
Smith, Jas. P.....	Collinsville.....
Smith, Joseph.....	Muncie.....
Smith, T. J.....	Pana.....
Smith, William.....	Athens.....
Smith, William G.....	Riverton.....
Smith, William J.....	Girard.....
Snedon, Richard.....	Virden.....
Sollenberger, H. C.....	Canton.....
Springer, Albert R.....	Glen Carbon.....
Stachle, August.....	Belleville.....
Stanton, Wm. E.....	Colchester.....
Steel, Alexander.....	Collinsville.....
Steel, Daniel.....	Collinsville.....
Steel, James.....	Spring Valley.....
Steel, Neal.....	Centralia.....
Sterratt, James.....	Peoria.....
Stewart, D. G.....	Seatonville.....
Stockett, Howard.....	Springfield.....
Stockett, Lewis.....	Collinsville.....
Stockett, Thomas R. Jr.....	Collinsville.....
Stockman, W. H.....	DuQuoin.....
Storrie, Archibald.....	Marquette.....
Streble, George.....	Auburn.....
Strickland, John.....	Coal City.....
Sutton, Thomas.....	Mt. Pleasant.....
Swansburg, J. L.....	Danville.....
Swarthout, J. P.....	Peoria.....



*Certificates of Competency.—Concluded.*

Names.	Address.
Tallman, John.....	Kangley.....
Taylor, Charles.....	Edwards.....
Taylor, Daniel.....	Edwards.....
Taylor, Henry.....	Belleville.....
Taylor, James.....	Edwards.....
Taylor, Joseph.....	Springfield.....
Taylor, Thomas.....	Springfield.....
Thom, Alexander.....	Coal City.....
Thom, James.....	Salem.....
Thomas, J. R.....	Ladd.....
Thomas, T. J.....	Collinsville.....
Thomas, Reese.....	Spaulding.....
Thomas, Richard.....	Ridge Prairie.....
Thompson, John.....	DeSoto.....
Thompson, R. C.....	Murphysboro.....
Thornton, James.....	DuQuoin.....
Thornd, Joe.....	Trenton.....
Tregoring, Walter.....	Murphysboro.....
Twonley, Edwin.....	Coal City.....
Vallow, Chas.....	Kimmunity.....
Vicary, John.....	Peoria.....
Vose, John.....	Springfield.....
Wagner, I.....	Mapleton.....
Walland, E. S.....	Bartonville.....
Walness, Wm.....	Riverton.....
Walschtag, S.....	Peoria.....
Walsch, Patrick.....	Springfield.....
Walters, Wm. H.....	Stanton.....
Wanless, Isaac.....	Riverton.....
Wanting, T. J.....	Pottstown.....
Waters, Thomas W.....	Ladd.....
Watts, Wm.....	Elmwood.....
Weeks, Thomas.....	Streator.....
Weisenborn, F. E.....	Gillespie.....
Westwater, David.....	Westville.....
Westwood, Albert.....	Belleville.....
Westwood, John.....	Streator.....
Westwood, Thomas.....	Belleville.....
Wheateraft, James.....	Elmwood.....
Wheennan, Charles.....	Oglesby.....
Whitaker, John.....	Collinsville.....
Whitaker, W. J.....	Collinsville.....
Wild, James.....	Murphysboro.....
Wild, James.....	Troy.....
Wiley, R.....	St. David.....
Wilkinson, Frank.....	Westville.....
Wilkinson, T. H.....	Diamond.....
Willett, Thomas.....	Collinsville.....
Williams, James.....	Murphysboro.....
Williams, Jeff.....	Manlock.....
Williams, John.....	Riverton.....
Williams, Louis.....	Belleville.....
Williams, Robert H.....	Edinburg.....
Williams, Walter.....	DuQuoin.....
Williams, W. W.....	Hornsby.....
Williamson, William.....	Stanton.....
Wilson, David.....	Murphysboro.....
Wilson, Hugh.....	Kimmunity.....
Wilson, Hiram.....	Carbondale.....
Wilson, H. C.....	Pekin.....
Wilson, John B.....	Sparta.....
Wilson, J. G.....	Roanoke.....
Wilson, John G.....	Wesley City.....
Wilson, Thomas.....	Astoria.....
Wilson, W. A.....	Reed City.....
Winning, James.....	Carterville.....
Winnng, Robert.....	Carterville.....
Winterbottom, John.....	Nashville.....
Wright, John.....	Belleville.....
Young, Hiram.....	Girard.....
Young, Hugh G.....	Braidwood.....
Zoller, Robert H.....	Braidwood.....

# LIST OF FIRE BOSSES HOLDING CERTIFICATES OF COMPETENCY.

Names.	Address.
Argyle, Joseph.....	Coal City.....
Barlow, Harry.....	Lake Creek.....
Bluffield, Chas.....	Coal City.....
Bullough, James.....	Girard.....
Campbell, James.....	Assumption.....
Cappin, Aaron.....	Wenona.....
Castillo, Henry.....	Pana.....
Chaiderton, John.....	Lenz Station.....
Davis, Wm.....	Streator.....
Galbraith, Patrick.....	Coal City.....
Gloss, Mike.....	Gardner.....
Goebe, Wm.....	Staunton.....
Grabsuck, Emil.....	Staunton.....
Hardman, J. J.....	Auburn.....
Harrison, James.....	Athens.....
Harrison, John.....	Odin.....
Henley, J. H.....	Odin.....
Holden, Andy.....	Coal City.....
Hopkins, Reese.....	Litchfield.....
James, Johann.....	Grape Creek.....
Jennings, Wm.....	Athens.....
Jones, Benj. J.....	Coften.....
Jones, Morgan.....	Litchfield.....
Johnston, Samuel.....	Oglesby.....
Klover, Matthew.....	Pana.....
Lawson, Thos.....	Lake Creek.....
Lettson, Wm.....	Seneca.....
Lyons, Mark.....	Lincoln.....
Maggo, Jacob.....	Danville.....
Massie, J. G.....	Belleville.....
Muentrich, J.....	Staunton.....
McCranon, James.....	Girard.....
McCrindle, James.....	Oglesby.....
McEwen, Chas.....	Carbon Hill.....
McKellop, Donald.....	Carbon Hill.....
Nicholas, Eli W.....	Dunfermline.....
Nixon, Robert.....	Streator.....
Opp, Sherman W.....	Sandoval.....
Pick, Edward.....	Central City.....
Prince, Thos.....	Mt. Olive.....
Quim, Bernard.....	Bloomington.....
Reinnison, Henry.....	St. Johns.....
Ritson, Hugh.....	Farmington.....

*Certificates of Competency.*—Concluded.

Names.	Address.
Schmid, Conrad.....	Lincoln.....
Smith, James.....	Streator.....
Steel, Dan.....	Collinsville.....
Steel, Neal.....	Centralia.....
Sterns, James.....	Hallidayboro,.....
Stonburner, L. L.....	Sorento.....
Thomas, John.....	Coal City.....
Vit, Chas.....	Litchfield.....
Whiteamper, Louis.....	Lincoln.....
Williams, W. E.....	Streator.....

# LIST OF FIRE BOSSES HOLDING CERTIFICATES OF SERVICE.

Names.	Address.
Bagshaw, Geo. W.....	Virden.....
Blakemore, Geo.....	Streator.....
Borg, Frank.....	Mt. Olive.....
Boulton, Henry.....	Coal City.....
Bough, Wm.....	Dawson.....
Brooks, Peter.....	Taylorville.....
Brown, John.....	Streator.....
Caveny, Edw.....	Pana.....
Franzen, Mat.....	Girard.....
Gray, Wm.....	Streator.....
Griffin, John.....	Niantic.....
Hall, John Herbert.....	Minonk.....
Hoesfield, Aaron.....	Oglesby.....
Hornanor, Paul.....	Lincoln.....
Hughes, John.....	Decatur.....
Humphreys, Wm.....	Clark City.....
Jenkins, Rutland.....	LaSalle.....
Kneper, David.....	Girard.....
Kopps, August.....	Girard.....
Kortkamp, Carl.....	Hillsboro.....
Kortkamp, Lewis.....	Hillsboro.....
Lewis, Edw.....	Ladd.....
Moffett, Edw. A.....	Bartonville.....
Montgomery, John A.....	Gardner.....
Mooney, Arthur.....	Kangley.....
McDonald, M. E.....	LaSalle.....
Ross, S. H.....	Girard.....
Schmidt, Ernest.....	Mt. Olive.....
Shaw, Francis M.....	Hallidayboro.....
Shopman, John.....	Mt. Olive.....
Siebenhauser, Wm.....	LaSalle.....
Sohnfski, Herman.....	Decatur.....
Stewart, Samuel.....	Coal City.....
Taylor, Sam.....	O'Fallon.....
Wilson, Archie.....	Clark City.....
Wilson, John.....	Gardner.....
Wood, Henry.....	Streator.....

# LIST OF HOISTING ENGINEERS HOLDING CERTIFICATES OF COMPETENCY.

Names.	Address.
Ablem, Henry.....	Breese.....
Adams, Nelson.....	Lincoln.....
Alexander, W. A.....	Roseboro.....
Allen, C. E.....	Troy.....
Allen, C. H.....	Seneca.....
Alivater, Stephen.....	Clarke City.....
Anderson, Henry.....	Lincoln.....
Anderson, Z. B.....	Sparta.....
Andrews, Solomon.....	Girard.....
Appleton, Thomas.....	Virden.....
Archibald, David.....	Springfield.....
Ashman, Joseph.....	Murphysboro.....
Atkin, Robert R.....	Tilden.....
Avery Wm.....	Lenz Station.....
Barber, C. E.....	DuQuoin.....
Barber, C. W.....	DuQuoin.....
Barnhill, H. G.....	Kimmunity.....
Barr, Frank.....	Cantralia.....
Barton, C. W.....	Cable.....
Barton, Chas. W.....	Fairmount.....
Beard, Chas. A.....	Streator.....
Beatty, James H.....	Kimmunity.....
Beatty, Nepha.....	Mascoutah.....
Blake, Albert.....	Streator.....
Boston, Wm. H.....	Murphysboro.....
Brandenburg, F.....	Belleville.....
Bromley, Chas.....	Coal City.....
Bromley, George Sr.....	Carlin.....
Bromley, George W.....	Kelleyville.....
Broughton, Geo. C.....	Coffeen.....
Brown, Thos.....	Moweaqua.....
Buckley, Calvin W.....	Sparland.....
Burlinson, Aaron.....	Percy.....
Burr, Chauncy.....	Conterville.....
Burrell, G. K.....	Farmington.....
Butcher, Thos.....	Murphy'sboro.....
Butt, Thos. R.....	Litchfield.....
Byrne, Michael.....	LaSalle.....
Cain, Daniel.....	Ridgley.....
Cain, John.....	Ridgley.....
Cameron, Daniel.....	Pana.....
Camp, J. R.....	Westville.....
Campbell, Fred.....	Sorento.....
Campbell, W. J.....	Coal City.....
Cantrell, H. T.....	Farmington.....
Carmichael, Thos.....	Springfield.....
Carpenter, Charles.....	Girard.....
Carr, Robt. H.....	Freeburg.....
Carrington, Eugene.....	Moweaqua.....
Chew, B. R.....	Carlinville.....
Christ, Philip.....	Wenona.....
Clark, John.....	Marquette.....
Clark, John.....	Virden.....
Clark, Quintin.....	Braidwood.....
Clicken, C. S.....	Watt.....
Clifford, Michael.....	Kewanee.....
Clifton, Wm. H.....	Sparland.....
Coatner, Grant.....	Fairmount.....
Collington, Chas.....	Belleville.....

*Certificates of Competency.—Continued.*

Names.	Address.
Collingwood, Wm.....	Greenview.....
Cowley, John.....	Streator.....
Connelly, J. J.....	Murphysboro.....
Conway, John.....	Collinsville.....
Conway, Michael.....	Ladd.....
Cornelius, Richard.....	Fairmont.....
Cotton, George.....	Hallidayboro.....
Crocher, Edward.....	Marquette.....
Cummings, George.....	Pana.....
Cummings, Geo. A. P.....	Gardner.....
Cummings, Geo. P.....	Sparland.....
Cummings, Robert W.....	Sparta.....
Fanah, John W.....	Springfield.....
Daniel, James.....	Belleville.....
Daniels, Joel.....	Bolleville.....
Dankins, Thos. J.....	Braceville.....
Davis, E. E.....	Auburn.....
Davis, Frank.....	Lincoln.....
Davis, James P.....	Belleville.....
Davis, L. D.....	Coffeen.....
Deaton, L. B.....	Tallula.....
Deiseacher, Thomas.....	Elmwood.....
Dee, Henry.....	Glen Carbon.....
Delmore, Frank.....	Springfield.....
Delorey, Wm.....	Westville.....
Dent, Wm.....	Diamond.....
Dick, Robt.....	Sunfield.....
Dodwell, Edward J.....	Decatur.....
Dowler, John.....	Auburn.....
Dowling, Ira P.....	Springfield.....
Dougherty, Joseph.....	Taylorville.....
Duffy, Glen.....	Collinsville.....
Duncan, J. R.....	LaSalle.....
Dyer, Harry.....	DuQuoin.....
Estham, G. A.....	Girard.....
Eady, Evermont.....	Athens.....
Elliott, Clarence.....	Bryant.....
Elliott, H. H.....	Centralia.....
Ellis, Albert.....	Cable.....
Elmore, V. M.....	Coffeen.....
Emery, H. W.....	Grenville.....
Erisman, Jacob D.....	Niantic.....
Erisman, Jesse.....	Niantic.....
Evans, C. L.....	Verden.....
Evans, W. E.....	Danville.....
Fahay, John.....	Decatur.....
Farley, James.....	Riverton.....
Fillingham, J. A.....	Canton.....
Fischer, Philip.....	Lenzburg.....
Flesher, A.....	Taylorville.....
Forister, Robt.....	Murphysboro.....
Forister, Wm.....	Murphysboro.....
Fox, James B.....	LaSalle.....
Fram, Austin.....	Ridge Prairie.....
Frankland, Tim.....	Streator.....
Friend, J. W.....	Colinsville.....
Frier, Jacob.....	Ormsby.....
Fritz, Gustav.....	Breese.....
Fry, D. W.....	Clarke City.....
Ferguson, S. P.....	Strasburg.....
Fuster, D. H.....	Murphysboro.....
Gately, James.....	Seatonville.....
Gates, Wm. S.....	Kankakee.....
Gallagher, Peter.....	Clarke City.....
Gaughan, James.....	Bradwood.....
Gibson, John.....	Sandoval.....
Gilkson, R. W.....	Danville.....
Girten, Henry.....	Troy.....
Gladders, Wm.....	Coal City.....
Golby, Arthur A.....	Percy.....
Golby, B. F.....	Percy.....
Golby, Frank H.....	Stookey.....
Gordon, E. J.....	Petersburg.....
Gould, Geo.....	Sato.....

*Certificates of Competency.—Continued.*

Names.	Address.
Grace, John T.	Kewanee.
Graham, L. A.	Springfield.
Greaves, Walter.	Ladd.
Green, Daniel.	Braidwood.
Green, Thomas.	Marissa.
Greenhalgh, James.	Hillsboro.
Greenhalgh, Wm.	Hillsboro.
Grievies, James.	Birkner.
Griffin, John O.	Kewanee.
Groom, John Sr.	Belleville.
Groom, James.	Belleville.
Groom, Wm.	Belleville.
Grubb, Michael.	Riverton.
Hensel, Edward.	Lenzburg.
Hansel, David.	Lenzburg.
Hagler, Chas.	Fredonia.
Hale, Wm. T.	Troy.
Hall, G. R.	Colchester.
Hamilton, Jas. H.	Sparland.
Hampton, N. R.	Murphysboro.
Hand, P. L.	Peoria.
Hand e, Ledlie.	Taylorville.
Hanvey, John J.	Collinsville.
Hanvay, Robert.	Collinsville.
Hanvay, Wm.	Collinsville.
Hardy, Thos. W.	Dawson.
Hartman, Frank.	Murphysboro.
Hawk r, J. O.	Pana.
Hayes, James.	Bloomington.
Head, John S.	Assumption.
Hennegan, John F.	Wanlock.
Henry, Philip.	Kewanee.
Herring, Geo. P.	Odin.
Hillard, James.	St. David.
Hill, C. C.	Marissa.
Hill, C. W.	Pontiac.
Hodson, Edward.	Murphysboro.
Hoecker, Chas.	Glen Carbon.
Hopper, Frank.	Edwardsville.
Hopper, Geo.	Glen Carbon.
Hopper, H. H.	Gillespie.
Hord, Alvin.	Taylorville.
Huggins, Wm.	Murphysboro.
Hughes, John C.	Springfield.
Irwin, Byron.	Pana.
Irwin, John.	Gillespie.
Isadore, Geo.	Roseburg.
Jacobs, James M.	Mowcaqua.
Jacobs, Wm.	Murphysboro.
Jacobs, W. Sr.	Peoria.
Jeffrey, Jam s.	Marissa.
Jenkins, John L.	Streator.
Jenkins, T. E.	Danville.
Jenks, Wm.	Athens.
Jones, George.	Freeburg.
Jones, John P.	Stanton.
Jones, Henry E.	Belleville.
Jones, Jonathan Jr.	Marissa.
Jones, Jonathan Sr.	Marissa.
Jones, Logan.	Marissa.
Jones, William.	Marissa.
Johnson, John W.	Bloomington.
Johnson, J. S.	Birkner.
Johnson, Robt.	DuQuoin.
Johnson, Wm. H.	Pawnee.
Johnston, Jos. R.	Spring Valley.
Johnston, Thomas.	Pontiac.
Keating, Edward F.	Streator.
Keating, Richard.	Streator.
Kelle, James D.	Carbon Hill.
Kelley, Robt. D.	Carbon Hill.
Kied, Alonzo.	Fairmount.
Kilbride, T. E.	Farmington.
Killinger, C.	Collinsville.

*Certificates of Competency—Continued.*

Names.	Address.
Killinger, John.....	Collinsville.....
Kimber, John.....	Ladd.....
Kingenfus, Wm.....	Belleville.....
Kinghom, John.....	Staunton.....
King, Alex. Sr.....	Cartersville.....
King, L. B.....	Smithboro.....
Kirshmer, Frank.....	Belleville.....
Lambert, Geo. W.....	LaSalle.....
Layne, J. W.....	DeSoto.....
Lehman, Philip.....	Lebanon.....
Lemons, J. L.....	Girard.....
Leslie, W. B.....	Braidwood.....
Lindskey, Martin H.....	Streator.....
Lindstrom, Oscar.....	Sherrard.....
Little, Thos.....	Murphysboro.....
Lockie, Wm.....	Cartersville.....
Lucht, M. F.....	Mt. Olive.....
Lundley, Ralph.....	Rich Prairie.....
Marder, Chas. H.....	Staunton.....
Manley, Leo.....	Coffeen.....
Mainwaring, Jas.....	Braceville.....
Marland, James.....	Wenona.....
Marland, Wm.....	Sparland.....
Marshall, Robt.....	Murphysboro.....
Massie, J. T.....	Belleville.....
Maule, Wm.....	Belleville.....
Mayor, J. W.....	DuQuoin.....
Meadows, Wm.....	Leadford.....
Michaels, Otto.....	Belleville.....
Miller, A. J. F.....	Centralia.....
Miller, James.....	Alma.....
Miller, Wm. C.....	Rentchler.....
Mills, Thos. S.....	Coal City.....
Monaghan, James.....	Gillespie.....
Morek, John.....	Belleville.....
Morgan, John C.....	Springfield.....
Morgan, Wm.....	Carbon Hill.....
Morris, George.....	Belleville.....
Morris, Wm.....	Mt. Olive.....
Morrisey, Thos.....	Lebanon.....
Mulvany, A. T.....	Glenburn.....
Murphy, Robt. T.....	Norris.....
Murrie, Archie.....	Trenton.....
Murray, Jos. P.....	Roseboro.....
Myers, Henry.....	Minonk.....
McCauley.....	Avon.....
McCormack, James J.....	Springfield.....
McCulley, G. L.....	Pawnee.....
McDonald, John.....	Springfield.....
McDonald, Wm. J.....	Percy.....
McFarland, F. E.....	Murphysboro.....
McGittigan, Thos.....	Pana.....
McKean, John.....	Carbon Hill.....
McKean, Isaac.....	Coal City.....
McKearnan, J. B.....	Athens.....
McKeernan, John.....	Belleville.....
McLaughlan, F. T.....	Carbon Hill.....
McLaughlan, Geo.....	Carbon Hill.....
McVey, Frank.....	Roanoke.....
McVicar, Donald.....	LaSalle.....
Needham, Daniel.....	Breese.....
Nelson, Andrew V.....	Centralia.....
Newal, Leroy.....	Sparland.....
Neverner, James.....	Belleville.....
Nicol, Adolph.....	Belleville.....
Norboj, Peter.....	Galva.....
O'Brien, Terry.....	Decatur.....
O'Donnell, Michael.....	Decatur.....
Olinger, J.....	Odin.....
Ord, S. R.....	Mt. Vernon.....
Osburn, Glen L.....	Streator.....
Ot o, John.....	Collinsville.....
Outhouse, John.....	Johnson City.....



*Certificates of Competency - Continued.*

Names.	Address.
Paddock, W. D.	Pana.
Paden, J. W.	Spring Valley
Parks, James	Streator
Patterson, R. J.	Murphysboro
Pearce, H. L.	Cable
Peecher, David	Braidwood
Petrea, J. W.	Centralia
Philip, J. M.	Athens
Piper, James	Worden
Petra, Frank	Odin
Pircher, Peter P.	Sandoval
Plocker, Henry	Pana
Pointer, Ed. H.	Belleville
Powell, Edwin	Caseyville
Powell, F. C.	Seatonville
Price, Thos.	Spalding
Pugh, Dan	St. John
Puhrer, R. H.	Centralia
Quick, A. F.	Sato
Quick, A. S. H.	Sato
Quigley, Henry	Hallidayboro.
Raber, F. G.	Troy
Radford, Wm. T.	Bloomington
Rafter, Michael	Marquette
Randle, Caleb	Belleville
Randle, Wm.	Freeburg
Rason, J. D.	Staunton
Reagan, Wm.	Mt. Olive
Reatz, Hans	Lincoln
Reed, W. J.	Danville
Reetz, Herman	Lincoln
Reid, Archibald	Springfield
Reilly, Henry	Toluca
Reimann, John	Belleville
Reuni, Andrew	Dunfermline
Rennie, James	Dunfermline
Rhodes, Almon R.	Chenoa
Rice, C. L.	Harrisburg
Rice, Moses	Murphysboro
Richards, John T.	Staunton
Richmond, John E.	Coal City
Riley B. J.	Cantrall
Rippitoe, J. G.	Colchester
Roberts, John	Litchfield
Robinson, Chas.	Wenona
Robinson, J. A.	Riverton
Robinson, Wm. A.	Toluca
Rockey, Chas.	Peoria
Roy, A. L.	Collinsville
Russell, Zenas	Pana
Rutliff, Isaac	Ashland
Savage, Richard	Clarke City
Sawers, Joseph	Coal City
Saylor, C. F.	Murphysboro
Schaifer, Fred	Belleville
Schmacher, Herman	Glen Carbon
Scharinck, Frank	Edwardsville
Schroeder, Chas.	Mt. Olive
Schroeder, Henry	Mt. Olive
Schuessel, Conard	Breese
Schulte, Fritz	Clinton
Scott, J. W.	Colchester
Secar, F. D.	Odin
Seiler, Wm.	Ormsby
Seeman, John C.	Cantrall
Shroyer, A. D.	Lincoln
Siddall, John	Belleville
Siddall, Levi	Belleville
Slocum, Clarence	Gilchrist
Smith, Ed. J.	Collinsville
Sneddon, John	O'Fallon
Sneddon, Richard	Canlin
Sowerly, Miles	Willisville
Sparks, J. L.	Mt. Vernon
Sparling, Chas.	Seatonville

*Certificates of Competency—Concluded.*

Name.	Address.
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Sparling, Henry .....	Seatonville .....
Strout, J. W. ....	Pontiac .....
Standford, J. W. ....	Pana .....
Stedman, Edgar .....	Missionfield .....
Stedman, Robt. ....	Danville .....
Steel, E. H. ....	Salem .....
Steven, C. H. ....	Spring Valley .....
Stewart, James C. ....	Carbon Hill .....
Stewart, Peter .....	Murphysboro .....
Stout, F. M. ....	Springfield .....
Stout, W. E. ....	Rutland .....
Stowell, G. W. ....	Bloomington .....
Swartz, Fred .....	Toluca .....
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Taylor, Edwin .....	Trenton .....
Taylor, Mack .....	Westville .....
Temple, James C. ....	Springfield .....
Thomas, Fred .....	Rutland .....
Thex'on, Henry .....	Rushville .....
Tibballs, E. E. ....	Marion .....
Travis, Alonzo .....	Pana .....
Travis, Wm. ....	Birkner .....
Twonby, Edward .....	Coal Valley .....
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Vandever, Perry E. ....	Taylorville .....
Vernon, James .....	LaSalle .....
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Waldron, Thos. ....	Fredonia .....
Walker, John H. ....	Mt. Olive .....
Walker, Joshua .....	Mt. Olive .....
Wollock, Chas. ....	Braceville .....
Walton, Joseph .....	St. David .....
Wantling, T. J. ....	Pottstown .....
Wandless, W. S. ....	Collinsville .....
Wassel, Anton .....	Braceville .....
Wattawa, Joseph .....	Belleville .....
Watts, T. J. ....	Elmwood .....
West, W. H. ....	Murphysboro .....
Westwook, Albert .....	Belleville .....
White, Robert .....	Lincoln .....
Wilkin, W. P. ....	Springfield .....
Williamson, Henry .....	Coal City .....
Williamson, William .....	Coal City .....
Wohlers, Henry .....	Mt. Olive .....
Wilson, David .....	Birkner .....
Wilson, W. H. ....	Middle Grove .....
Woodward, J. R. ....	Streator .....
Wright, Wm. M. ....	Pana .....
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Yates, John .....	DeSoto .....
Yates, Wm. ....	Coal City .....
Yehling, Fred H. ....	DuQuoin .....
Young, J. K. ....	Girard .....
Young, Jas. L. ....	Gardner .....
Young, Robert .....	LaSalle .....
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Zink, Louis .....	Belleville .....
Zurick-r, Lorens .....	Cable .....
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# LIST OF HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Name.	Address.
Ackerman, Jacob	Belleville
Allen, Wm. H.	Collinsville
Anthony, John C.	Belleville
Banker, Henry	Rich Prairie
Beeby, Wm.	Springfield
Bell, Geo. E.	Canton
Bevenuto, Chas.	Tolnea
Blue, Jesse	Morris
Bowman, Geo. W.	Yates City
Brown, G. A.	Hes Junction
Brubeck, J. W.	Pawnee
Bumann, Albert	Springfield
Campbell, Albert	Pottstown
Campbell, James	Coal City
Carlson, Alex.	Galva
Carrington, Eugene	Moweaqua
Carter, Albert J.	Pinckneyville
Chitwood, Wm.	Glenburn
Clark, Chas. M.	DuQuoin
Cline, John	LaSalle
Cook, W. D.	Westville
Collins, John	Birkner
Cotton, Geo.	Hallidayboro
Cox, John	Ledford
Craig, Daniel	Danville
Crawson, Wm.	O'Fallon
Crinigan, Barney	LaSalle
Crocker, Ed	Marquette
Crunkshanks, Wm. A.	Middle Grove
Daley, Thos.	Diamond
Danck, John	LaSalle
Davenport, Thos.	New Castle
Davis, Geo. W.	Hanna City
Davis, Thomas	Swanwick
Davison, J. G.	St. John
Dawson, John	Streator
Dawson, V. C.	Spring Valley
DeBacher, Thomas	Elmwood
Dietrich, Philip	Freeburg
Dillon, John	Auburn
Doe, R. P.	Glen Carbon
Dodd, Samuel	Pottstown
Edwards, Geo. W.	Springfield
Ekes, Daniel B.	
Essex, Geo. M.	Soperville
Evans, Albert	Glen Carbon
Everett, Chas.	Rutland
Fischer, Geo.	Straunton
Fisher, Patrick	Kangley
Gandy, James W.	Peoria
Glenam, Philip	Williamsville
Glasford, Oliver	Orchard Mines
Graham, J. A.	Nilwood

*List of Hoisting Engineers—Continued.*

Name.	Address.
Grattendick, Fred .....	Okawville .....
Gruaves, Allen .....	Nashville .....
Grey, David F. ....	Springfield .....
Grierson, John .....	Streator .....
Grimshaw, Joseph .....	LaSalle .....
Groom, John .....	Belleville .....
Haas, Jacob .....	Millstadt .....
Hagler, Chas. ....	Fredonia .....
Hanson, Wm. ....	O'Fallon .....
Harms, Heike .....	Petersburg .....
Harris, J. T. ....	Tamaroa .....
Hayes, John .....	Riverton .....
Heaver, F. ....	Sandoval .....
Hickox, Lee .....	Springfield .....
Ichman, Frank .....	Spring Valley .....
Isadore, Chas. ....	Sparta .....
Isadore, George .....	.....
Jackson, Wm. ....	Minonk .....
Jacobs, John P. ....	Orchard Mines .....
Jacobs, Wm. ....	Murphysboro .....
Jamison, John .....	Petersburg .....
Johnson, Edgar W. ....	Marissa .....
Jones, Geo. W. ....	Riverton .....
Jones, T. A. ....	Muncie .....
Judd, Thos .....	Cuba .....
Karney, E. ....	Hallidayboro .....
Kelley, Martin .....	Jolua .....
Kemper, Christian .....	Belleville .....
Kennedy, W. J. ....	Edwardsville .....
King, Alex., Jr. ....	Carterville .....
Kirby, Thos., Sr. ....	Peru .....
Klang, John .....	Galva .....
Klaus, Louis .....	Belleville .....
Langran, James .....	Fairbury .....
Larson, Chas. L. ....	Galva .....
Latham, Wm. H. ....	Hallidayboro .....
Lewes, Jacob H. ....	Pottstown .....
Lloyd, Benj. ....	Rentchler .....
Love, Wm. ....	Virden .....
Lundberg, Eric .....	Galva .....
Marshall, Robert .....	Yates City .....
Mattern, Daniel .....	Spring Valley .....
Matthew, C. ....	Marion .....
Matthews, Wm. G. ....	Bartonville .....
Maxwell, Fred .....	Peoria .....
Melvin, T. M. ....	Tamaroa .....
Milem, John .....	Spring Valley .....
Miller, Wm. ....	Streator .....
Worrison, Archie .....	Oglesby .....
Murray, Chas. H. ....	Galva .....
McTalster, Thos. ....	Muddy Valley .....
McDonald, W. H. ....	Pana .....
McLean, John .....	Pleasant Plains .....
McMillen, W. M. ....	Danville .....
McWerthy, J. A. ....	Smithboro .....
Neal, Ambrose .....	Barclay .....
Neill, John H. ....	Bunker Hill .....
Neilson, J. W. ....	Sparta .....
Nicholson, Geo. A. ....	Cuba .....
Noid, John E. ....	Galva .....
Ogden, David .....	Rentchler .....
Ogden, Samuel .....	Mascoutah .....
Olso, Aug. ....	Kangley .....
Osborne, Benj. ....	Streator .....
Ottinger, Wm .....	Catlin .....
Hankey, John M. ....	Equality .....
Peet, Chas. ....	Marseilles .....
Pendergast, Jas. ....	Soperville .....

*List of Hoisting Engineers—Concluded.*

Name.	Address.
Phillips, Wm.	Hallidayboro.
Piper, Oliver	Worden.
Prichard, H. C.	Lewistown.
Prichett, T. M.	Niantic.
Qualls, Nevel.	Dubois.
Quick, A. T.	Sato.
Raber, Louis	Caseyville.
Radford, James W.	Cuba.
Radford, W. T.	Bloomington.
Rahaur, Mike.	Pawnee.
Redyard, John	Olin.
Reese, B. F.	Harrisburg.
Reid, A. B., Jr.	DuQuoin.
Rennard, Jas. E.	Westville.
Reum, Chas. H.	Sorento.
Rice, B. F.	Harrisburg.
Richmond, Ed. B.	Winchester.
Rieger, John C.	Pinckneyville.
Riley, Michael.	Westville.
Roach, Samuel.	Tamaroa.
Rogers, Geo.	Sunfield.
Rogers, Henry.	Braidwood.
Rude, Edmond.	DeSoto.
Sallada, Geo. A.	Chatham.
Sanson, T. J.	Carterville.
Sawers, Joseph.	Coal City.
Schnmacher, Chas.	Marissa.
Schramm, Chas.	Belleville.
Seebach, Joseph	Spring Valley.
Sexton, LaFayette	Dawson.
Seymour, A. J.	Fredonia.
Sheppard, W. C.	Marquette.
Shurm, Fred.	Gardner.
Smith, Geo. W.	Virginia.
Soirels, D. H.	Ashland.
Sowarby, Miles.	Willisville.
Strick, Wm.	Belleville.
Stoker, Edward	Bartonville.
Struck, Carl.	Springfield.
Stuart, John.	Oglesby.
Taylor, Benj.	Bartonville.
Taylor, Willard W.	Tamaroa.
Tefft, Ernst.	Girard.
Telfer, John K.	Morris.
Wallace, H. G.	East Peoria.
Warren, Andrew M.	Wenona.
Waynre, James.	Assumption.
Wertwood, Edw.	Birkner.
Wheatley, Rolley.	DuQuoin.
White, Henry.	Riverton.
Williams, Huster.	Spaulding.
Williams, Stephen P.	Wyoming.
Williams, Watson.	Barclay.
Wills, Harry.	New Castle.
Wood, Samuel A.	Colfax.
Woolbright, D. A.	Centralia.
Wonnes, Joseph.	Birkner.
Wonnack, Chas.	Glen Carbon.
Zeigler, John.	Iles Junction.

## FINANCIAL STATEMENT

*Of Moneys Received for Inspection of Coal Mines to July 1, 1896.*

The Thirty-ninth General Assembly so amended the General Mining Law of the State as to compel the coal operators to pay for inspection service, fixing the maximum of each inspection at ten (10) dollars, the intermediate at eight (8) dollars, and the minimum at six (6) dollars. The law also requires that the inspectors make a detailed report to this Bureau of the number of inspections made and the amounts charged, which is to be embodied in the annual Coal Report of Illinois. As the fiscal year of this report ends July 1, 1896, the money that has been acknowledged as having been received at this department for inspection service includes only that which has been received up to that date; subsequent remittances will be published in the annual Coal Report of next year.

## REPORT OF INSPECTION OF MINES.

*Showing Number of Inspections Made, Amounts Charged and Money Received for Year ending July 1, 1896—First Inspection District.*

JAMES A. KEATING, Inspector.

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
LaSalle County Carbon Co.—					
Rockwell.....	LaSalle.....	Oct. 2, 1895	\$10 00	Feb. 24..	\$10 00
Union Shaft.....	.....	Nov. 11, 12, 1895	10 00	" 21..	10 00
No. 1.....	Jones.....	Jan. 29, 30, 1896	10 00	.....	.....
LaSalle Co. Carbon Co.....	LaSalle.....	31, 1896	10 00	.....	.....
Union.....	.....	Mar. 23, 24, 1896	10 00	.....	.....
Rockwell.....	.....	April 8, 9, 1896	10 00	.....	.....
Jones.....	.....	May 12, 13, 1896	10 00	.....	.....
LaSalle.....	.....	May 14, 1896	10 00	.....	.....
Vermilion Coal Co.....	Streator.....	Nov. 2, 4, 1895	10 00	.....	.....
Acme Coal Co., The Coal.....	.....	5, 1895	8 00	Jan. 21..	8 00
" " Acme.....	.....	Feb. 26, 1896	10 00	May 11..	10 00
" " ".....	.....	June 15, 1896	8 00	.....	.....
Star Coal Co.—					
No. 2.....	.....	Nov. 13, 14, 95	10 00	Feb. 14..	10 00
Carbon Hill, No. 1.....	.....	Dec. 2, 3, 1895	10 00	" 14..	10 00
No. 2.....	Carbon Hill.....	10, 11, 1895	10 00	" 14..	10 00
No. 3.....	Streator.....	12, 13, 1895	10 0	" 14..	10 00
Spring Hill.....	.....	Nov. 14, 1895	8 00	" 14..	8 00
Kangley, No. 2.....	Spring Hill.....	Feb. 28, 1896	10 00	May 10..	10 00
No. 2.....	Kangley.....	Mar. 11, 12, 1896	10 00	10..	10 00
No. 3.....	Carbon Hill.....	Apr. 22, 23, 1896	10 00	.....	.....
No. 1.....	.....	24, 25, 1896	10 00	.....	.....
No. 2.....	Spring Hill.....	June 13, 18, 4	10 00	.....	.....
No. 2.....	Kangley.....	" 26, 27, 1896	10 00	.....	.....
C. W. & V. Coal Co.—					
No. 1.....	Streator.....	Nov. 15, 1895	10 00	.....	.....
P.....	Braidwood.....	27, 1895	10 00	.....	.....
No. 2.....	Streator.....	Dec. 24, 1895	8 00	.....	.....
Braidwood.....	Braidwood.....	Jan. 13, 1896	10 00	.....	.....
No. 2.....	Streator.....	Mar. 6, 1896	10 00	.....	.....
No. 1.....	Heenanville.....	13, 1896	10 00	.....	.....
P.....	Braidwood.....	Apr. 17, 1896	10 00	.....	.....
No. 2.....	Streator.....	28, 1896	10 00	.....	.....
Price & Jones (P. O., Streator)	Prairie Creek.....	Nov. 16, 1895	6 00	.....	.....
" " ".....	Streator.....	Mar. 13, 1896	8 00	.....	.....
" " ".....	Prairie Creek.....	19, 1896	6 00	.....	.....
" " ".....	Streator.....	June 8, 18, 4	8 00	.....	.....
Joseph Kilburn.....	.....	Nov. 18, 1895	6 00	.....	.....
John Marshall.....	.....	" 18, 1895	6 00	Mar. 31..	6 00
Streator Clay Mfg. Co., No. 1.....	.....	" 18, 1895	6 00	.....	.....
" " ".....	.....	Mar. 29, 1896	6 00	.....	.....
Wilmington Star M. Co., No. 5	Coal City.....	Nov. 25, 1895	8 00	Feb. 5..	8 00
" " ".....	No. 3.....	Nov. 26, 1895	8 00	" 5..	8 00
" " ".....	No. 5.....	April 13, 1896	8 00	.....	.....
" " ".....	No. 3.....	April 18, 1896	8 00	.....	.....
Nelson Plumb.....	Streator.....	Nov. 29, 1895	6 00	.....	.....
Rynn & Roberts.....	.....	Dec. 9, 1895	6 00	.....	.....
" " ".....	.....	May 11, 1896	6 00	.....	.....
Wilmington Big Four.....	Coal City.....	Dec. 4, 1895	10 00	Feb. 7..	10 00
" " ".....	.....	April 14, 1896	10 00	.....	.....

*Financial Statement--Continued.*

Name of firm, company or person operating mine.	Location.	Date of inspection.	Amount of fee.	FEES PAID.	
				Date.	Amount.
Wilmington C. M. & Mfg. Co.	Diamond	Dec. 5 & 6, 1895	\$10 00	May 19	\$10 00
Edmunds & Viponds	Prairie Creek	Apr. 15, 16, 1896	10 00		
Alex Begrun (P. O. Streator)	Pleasant Hill	Dec. 9, 1895	6 00		
Harry Smoke		17, 1895	6 00		
Oglesby Coal Co., No. 1	Oglesby	19, 20, 1895	10 00	Jan. 18	10 00
Wm. Howe & Co., Coal Co.	Streator	Apr. 29, 30, 1896	10 00		
		Dec. 23, 1895	6 00	March 30	6 00
		Mar. 20, 1896	6 00		
Hodson & Stubbs, No. 1		Dec. 23, 1895	6 00		
		Apr. 27, 1896	6 00		
James Cahill	Peru	Dec. 30, 31, 1895	10 00	May 27	10 00
		Mar. 25, 1896	10 00		
Nelson & Westerbund	Streator	Jan. 4, 1896	6 00		
		Apr. 27, 1896	6 00		
Barraekman & Co.	Coalville	Jan. 6, 1896	8 00		
		Mar. 18, 1896	8 00		
Gardner & Wil. Coal Co., B.	Clarke City	Jan. 7, 1896	8 00		
No. 1	Gardner	8, 1896	8 00		
"	No. 1	May 5, 1896	8 00		
"	B.	18, 1896	8 00		
Streator & Pontiac Coal Co.	Pontiac	Jan. 10, 1896	8 00		
John Henry & Co.		10, 1896	6 00		
		May 4, 1896	6 00		
Coöperative Coal Co., No. 2	Braidwood	Jan. 14, 1896	6 00	May 18	6 00
No. 2		May 28, 1896	6 00		
Wm. Maltby, No. 1		Jan. 14, 1896	6 00	May 6	6 00
No. 1		May 28, 1896	6 00		
Chicago, Milwaukee & St. Paul	Braceville	Jan. 15, 16, 1896	10 00	May 23	10 00
		May 6, 7, 1896	10 00		
Wren & Griffith	Morris	Jan. 20, 1896	6 00		
		June 17, 1896	6 00		
Alex. Bell & Son		Jan. 20, 1896	6 00		
Jas. Cryer		21, 1896	6 00		
Thos. Espley		21, 1896	6 00		
		June 17, 1896	6 00		
Wm. Wood		Jan. 21, 1896	6 00		
		June 18, 1896	6 00		
Harry Keay		Jan. 21, 1896	6 00		
		June 17, 1896	6 00		
Frank Gilbride		Jan. 21, 1896	6 00		
Wm. Stott & Co		21, 1896	6 00		
		June 18, 1896	6 00		
Thos. Garrity		Jan. 22, 1896	6 00		
Jos. Meagher		22, 1896	6 00		
		June 18, 1896	6 00		
Jean Howe & Wm. George		Jan. 22, 1896	6 00		
Geo. Burt		22, 1896	6 00		
		June 18, 1896	6 00		
Jas. Heather		Jan. 22, 1896	6 00		
		June 18, 1896	6 00		
Geo. R. Blair		Jan. 22, 1896	6 00		
John Telfer		22, 1896	6 00		
A. W. Telfer & Son		25, 1896	6 00		
		June 19, 1896	6 00		
Mattheson & Hegler Zinc Co.	LaSalle	Jan. 28, 1896	8 00	May 8	8 00
		May 15, 1896	8 00		
Marseilles Land and Water Power Co.	Marseilles	Feb. 4, 1896	6 00		
Standard Coal Co.	Seneca	5, 1896	6 00		
Emerson Haikes	Rutland	11, 1896	8 00		
		May 20, 21, 1896	8 00		
Walton Bros	Fairbury	Feb. 13, 1896	6 00		
		May 26, 1896	6 00		
Coöperative Coal Co		Feb. 14, 1896	6 00		
		May 26, 1896	6 00		
Wm. Burrell (P. O. Streator)	South Streator	Feb. 17, 1896	6 00		
Jesse Massey & Sons (P. O. Streator)		18, 1896	6 00		
D. W. Thom (P. O. Streator)		19, 1896	6 00		
John Myers & John Castetter (P. O. Streator)	West Streator	20, 1896	6 00		
Robt. Haswell (P. O. Streator)		20, 1896	6 00		
Benj. Davis, No. 2	Coalville	21, 1896	6 00		
No. 1		May 27, 1896	6 00		



*Financial Statement—Concluded.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Sylvester-Kimes (P. O. Strea- tor) .....	Coalville .....	Feb.	21, 1896	\$6 00	.....
Sylvester-Kimes (P. O. Strea- tor) .....	" .....	May	22, 1896	6 00	.....
Thos. Edwards, No. 2. ....	" .....	Feb.	21, 1896	6 00	.....
1. ....	" .....	May	22, 1896	6 00	.....
R. B. Lyon, No. 1. ....	West Streator .....	Feb.	24, 1896	6 00	.....
Frank Hurst (P. O. Streator). ..	Prairie Creek ....	Mar.	2, 1896	6 00	.....
Thos. Treasure .....	Essex .....	"	10, 1896	6 00	.....
Harry Crew (P. O. Streator). ..	North Streator ...	"	16, 1896	6 00	.....
Geo. W. Galloway & Chas. P. Hinze (P. O. Streator) .....	Prairie Creek ....	"	16, 1896	6 00	.....
John Bace & John Roberts. ....	Streator .....	"	17, 1896	6 00	.....
Sowerby Bros. ....	" .....	"	17, 1896	6 00	.....
Fred Yates .....	" .....	"	27, 1896	6 00	.....
Eagle Clay Works .....	" .....	April	6, 1896	6 00	.....
R. Evans & Sons .....	Pontiac .....	May	4, 1896	8 00	.....
John Penman .....	Coalville .....	"	27, 1896	6 00	.....

## FINANCIAL STATEMENT.

*Report of Inspection of Mines, Showing Number of Inspections Made, Amounts Charged and Money Received for Year ending July 1, 1896—Second Inspection District.*

CHAS. DUNCAN, Inspector.

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Kewanee Coal Co.	Kewanee	Oct. 29, 1895	88 00		
" " No. 7	"	Nov. 11, 1895	8 00		
" " No. 7	"	Feb. 21, 1896	8 00		
" " No. 1	"	April 3, 1896	8 00		
Herdien Coal Co.	Galva	Oct. 30, 1895	6 00		
" " "	"	Nov. 1, 1895	6 00		
" " "	"	Mar. 5, 1896	6 00		
" " "	"	April 20, 1896	6 00		
J. H. Murray	"	Oct. 30, 1895	6 00	Jan. 22	\$6 00
" " "	"	Mar. 5, 1896	6 00		
Gray Eagle Coal Co.	"	Oct. 31, 1895	6 00		
" " "	"	Mar. 26, 1896	6 00		
Spring Valley Coal Co., No. 4	Spring Valley	Nov. 5, 1895	10 00	Mar. 10	10 00
" " No. 2	"	6, 7, 1895	10 00	10	10 00
" " No. 3	"	19, 20, 1895	10 00	" 10	10 00
" " No. 2	"	Jan. 14, 1896	10 00		
" " No. 3	"	Feb. 12, 1896	10 00		
" " No. 2	"	April 23, 1896	10 00		
" " No. 3	"	June 17, 1896	10 00		
Jas. Fairlie	Cambridge	Nov. 12, 1895	6 00	Jan. 25	6 00
" " "	"	Mar. 27, 1896	6 00		
Black Diamond Coal Co., slope	Coal Valley	Nov. 13, 1895	6 00		
" " No. 1	Canton	Oct. 30, 1895	6 00		
" " "	Coal Valley	Mar. 6, 1896	6 00		
" " "	"	June 27, 1896	6 00		
Robert Summerson	"	Nov. 13, 1895	6 00		
Benj. Lewis	"	" 13, 1895	6 00		
Wilkinson & Summerson	"	" 14, 1895	6 00		
John J. Pryce	"	" 14, 1895	6 00	Jan. 31	6 00
" " "	"	April 6, 1896	6 00		
Wm. Parker	Milan	Nov. 14, 1895	6 00		
David Walsh	"	" 14, 1895	6 00		
Marquette Coal Co.	Marquette	" 21, 1895	10 00	Mar. 2	10 00
" " "	"	Feb. 13, 1896	10 00		
" " "	"	June 11, 1896	10 00		
Alden Coal Co.	Wanlock	Nov. 25, 1895	10 00		
" " "	"	Mar. 2, 1896	10 00		
Empire Coal Co.	Gilchrist	Nov. 26, 1895	10 00		
" " "	"	Mar. 3, 1896	8 00		
W. H. Lyle	Kewanee	Nov. 29, 1895	6 00	Jan. 27	6 00
Henry Bros.	"	Nov. 29, 1895	6 00	May 6	6 00
" " "	"	Mar. 23, 1896	6 00	6	6 00
W. E. Phelps, No. 5	Elmwood	Dec. 2, 1895	8 00	Jan. 27	8 00
John A. Endres	"	" 3, 1895	6 00		
John P. Boland	"	" 3, 1895	6 00		
Howorth & Taylor	Edwards	" 3, 1895	6 00		
C. B. Kramm & Bro.	"	" 3, 1895	6 00		
" " "	"	Mar. 10, 1896	6 00		
M. Cusack	Cramm Station	Dec. 4, 1895	6 00		

*Financial Statement—Continued.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Wantling & Son	Pottstown	Dec. 4, 1895	86 00		
Thos. Wantling	"	4, 1895	6 00		
Isaac Wantling	"	4, 1895	6 00		
Vicary Bros.	Peoria	Mar. 10, 1896	6 00		
		Dec. 5, 1895	6 00		
		May 25, 1896	6 00		
Richard Muir	"	Dec. 5, 1895	6 00		
Richard Kief	"	5, 1895	6 00		
Martin & Lane Bros.	"	5, 1895	6 00		
John Glenn	"	5, 1895	6 00		
Richard Cody	"	5, 1895	6 00		
Fred Martin	"	5, 1895	6 00		
Wenona Coal Co.	Wenona	10, 1895	8 00		
Roanoke Mining Co.	Roanoke	Mar. 18, 1896	8 00		
		Dec. 11, 1895	10 00	Jan. 20	\$10 00
		Apr. 22, 1895	8 00		
Chicago and Minonk Coal and Tile Co.	Minonk	Dec. 12, 1895	10 00		
Chicago and Minonk Coal and Tile Co.	"	Mar. 12, 13, 1896	10 00		
Devlin Coal Co.	Toluea	Dec. 16, 17, 1895	10 00	Feb. 8	10 00
" No. 1	"	Mar. 19, 1896	10 00		
" No. 2	"	19, 1896	8 00		
Nathan Shaw	Kramm Station	Dec. 24, 1895	6 00		
Newsam Bros.	Maxwell	Dec. 23, 1895	6 00		
"	Kingston Mines	Jan. 3, 1896	8 00		
"	"	Mar. 16, 17, 1896	8 00		
"	LaMarsh Creek	May 15, 1896	6 00		
"	Peoria	May 11, 1896	6 00		
C. W. & V.	Seatonville	Nov. 22, 1895	10 00		
"	"	Feb. 19, 1896	10 00		
"	"	June 12, 1896	10 00		
Peter Grant	Peoria	Jan. 2, 1896	6 00		
Royster Bros.	"	Jan. 2, 1896	6 00		
Coal Valley Coal Co. No. 2	Sherrard	Jan. 6, 1896	8 00	Feb. 18	8 00
" No. 1	Cable	Jan. 7, 1896	10 00	18	10 00
" No. 1	"	Apr. 14, 1896	10 00		
" No. 2	Sherrard	Apr. 15, 1896	10 00		
Bryan B. Peterson	Cable	Jan. 7, 1896	6 00		
Hill Bros.	"	Jan. 8, 1896	6 00		
Lillinan Bros.	"	Jan. 8, 1896	6 00		
James Higbee	Wyoming	Jan. 20, 1896	6 00		
A. W. Higbee	"	20, 1896	6 00		
Joseph Swanson	"	20, 1896	6 00		
Robinson Bros.	"	20, 1896	6 00		
J. E. Williamson	Sheffield	Jan. 22, 1896	6 00		
"	"	May 4, 1896	6 00		
Pete Duncan	"	Jan. 22, 1896	6 00		
Sheffield Mining Co.	"	Jan. 23, 1896	6 00	May 8	6 00
"	"	May 6, 1896	6 00		
John Duncan	"	Jan. 23, 1896	6 00		
Clara Sprague, adm.	"	Jan. 20, 1896	6 00		
Silas Riley	Neponset	Jan. 24, 1896	6 00		
Paul & Collins	Mineral	Jan. 24, 1896	6 00		
Fred Jensen	"	24, 1896	6 00		
McCullough & Brandt	"	24, 1896	6 00		
George Heathcock	Princeton	Jan. 25, 1896	6 00		
A. W. Walton	"	25, 1896	6 00		
Wm. Smith & Sons	"	25, 1896	6 00		
Ed Brost	Peoria	Jan. 27, 1896	6 00		
W. J. White	"	27, 1896	6 00		
Sparland Coal Co.	Sparland	Jan. 30, 1896	6 00		
"	"	May 21, 1896	6 00		
Robt. Ingram	"	Jan. 30, 1896	6 00		
W. E. Frisbee	"	30, 1896	6 00		
Bartonville Coal Co.	Bartonville	31, 1896	6 00		
Collier Cooperative Coal Co.	"	31, 1896	6 00		
Hanna City Coal Co.	Hanna City	Feb. 4, 1896	6 00		
Reid City Coal & Mining Co.	"	"	"		
P. O. Peoria	Woleott	" 5, 1896	6 00		
W. E. Foley	Mapleton	" 5, 1896	6 00		
E. Wolland & Bro.	Bartonville	" 6, 1896	6 00		
Frank P. Schmidt & Sons	Peoria	" 6, 1896	6 00		
Bail Coal Co.	Bartonville	" 6, 1896	6 00		
Bernard Kirley	Kewanee	" 10, 1896	6 00		
Bates Bros.	"	19, 1896	6 00		

*Financial Statement—Concluded.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
John Mowbray.....	Atkinson.....	Feb. 13, 1896.	\$6 00		
Richard Marley.....	".....	13, 1896	6 00	June 9 ..	\$6 00
James Kay.....	".....	13, 1896	6 00		
Frank Lowery.....	Orchard Mines.....	24, 1896	6 00		
Sholl Bros., P. O. Peoria.....	Hollis.....	25, 1896	6 00		
Wolschlag Bros., P. O. Peoria.....	".....	May 29, 1896	6 00		
Jos. Scholl & Sons.....	Peoria.....	Feb. 25, 1896	6 00		
Keller & Son.....	Bartonville.....	26, 1896	6 00		
Fred Mohn.....	Peoria.....	27, 1896	6 00		
Ed Boden.....	Preemption.....	Mar. 3, 1896	6 00		
Thos. Docherty & Sons.....	".....	3, 1896	6 00		
Edward Carter, P. O. Peoria ..	Wesley.....	Feb. 24, 1896	8 00		
Elmwood Coal Co.....	Elmwood.....	May 29, 1896	8 00		
J. W. Miller.....	Pottstown.....	Mar. 9, 1896	8 00	May 25 ..	8 00
Daniel Birdoes.....	Peoria.....	10, 1896	6 00		
Leo Sneider.....	".....	11, 1896	6 00		
Joos & Rumble.....	".....	11, 1896	6 00		
John J. Snape.....	".....	11, 1896	6 00		
Wm. Cook.....	".....	11, 1896	6 00		
Jefford Bros.....	Kingston Mines.....	16, 1896	6 00		
Robt Taylor.....	Princeville.....	20, 1896	6 00		
Herman Henry.....	Kewanee.....	25, 1896	6 00		
Messmore & Anderson.....	".....	25, 1896	6 00		
Geo. R. Watson.....	Wyoming.....	April 7, 1896	6 00		
Harry Storey.....	".....	7, 1896	6 00		
Peter Herberger.....	".....	7, 1896	6 00		
Zadoc Wynn.....	Coal Valley.....	9, 1896	6 00		
Fred Vonach.....	Hampton.....	10, 1896	6 00		
John Catton.....	West Jersey.....	13, 1896	6 00		
Chas. Berg.....	LaFayette.....	13, 1896	6 00		
Campbell Creek Coal Co.....	Cable.....	14, 1896	6 00		
Silvis & Silvis.....	Carbon Cliff.....	16, 1896	6 00		
Jamieson Coal Co.....	Loding.....	16, 1896	6 00		
Mrs. John Loding.....	".....	16, 1896	6 00		
John Hynd.....	".....	16, 1896	6 00		
Orpheus Kemmerling.....	Hawley.....	17, 1896	6 00		
Jesse Savill.....	Modena.....	27, 1896	6 00		
John Scott.....	".....	27, 1896	6 00		
Daniel Phenix.....	Bradford.....	27, 1896	6 00		
Henry Green.....	Osceola.....	28, 1896	6 00		
Orlando Libby.....	Elmira.....	28, 1896	6 00		
Robt. Camey.....	Lombardville.....	May 4, 1896	6 00		
Hansen & Olsen.....	Sheffield.....	4, 1896	6 00		
Wm. Riley.....	Atkinson.....	6, 1896	6 00		
Philip Tully.....	Brimfield.....	12, 1896	6 00		
W. G. Saunders.....	".....	12, 1896	6 00		
Henry Heinz.....	Kickapoo.....	13, 1896	6 00		
Stoddard & Barr.....	Coal Valley.....	28, 1896	6 00		
Ferguson & Jones.....	Chenoa.....	6, 1896	6 00		
Petersburg Coöperative Coal Co.....	Petersburg.....	18, 1896	6 00		

## FINANCIAL STATEMENT.

*Report of Inspection of Mines, Showing Number of Inspections Made, Amounts Charged and Money Received for Year Ending July 1, 1896.—Third Inspection District.*

ROBT. PICKETT, Inspector.

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
H. Stickler.....	Canton.....	Oct. 30, 1895	\$6 00		
		April 11, 1895	6 00		
Oscar Waddell.....	Clinton.....	Oct. 30, 1895	6 00		
Owens & Timothy.....	Canton.....	" 30, 1895	6 00		
P. Lunden.....	".....	" 30, 1895	6 00		
Canton Coal Co.....	".....	" 31, 1895	6 00		
".....	".....	Jan. 27, 1896	6 00		
".....	".....	May 22, 1896	6 00		
Peterson & Dawson.....	".....	Oct. 31, 1895	6 00		
Gardner & Plenty.....	".....	Nov. 1, 1895	6 00		
		April 11, 1896	6 00		
W. B. Hughs & Son.....	".....	Nov. 1, 1895	6 00		
M. C. Scanlan.....	".....	" 1, 1895	6 00	Feb. 4...	\$6 00
Wm. Whitham.....	".....	" 1, 1895	6 00		
Chas. Minnett.....	".....	" 1, 1895	6 00		
Lewis Menmen.....	".....	" 2, 1895	6 00		
Patrick Meahan.....	Breeds.....	" 2, 1895	6 00		
		Feb. 8, 1896	6 00		
Joseph Haywood.....	Canton.....	Nov. 2, 1895	6 00		
Whitebreast Fuel Co., C.....	Dunfermline.....	" 4, 1895	10 00		
".....	D.....	" 5, 1895	8 00		
".....	B.....	Ladd.....	Dec. 19, 20, 1895	10 00	
".....	D.....	St. David.....	Jan. 24, 1896	8 00	
".....	C.....	Dunfermline.....	" 28, 1896	10 00	
".....	B.....	Ladd.....	Mar. 23, 24, 1896	10 00	
".....	C.....	Dunfermline.....	April 13, 1896	10 00	
".....	D.....	St. David.....	" 17, 1896	8 00	
".....	B.....	Ladd.....	June 19, 1896	10 00	
Carbon Coal Co.....	St. David.....	Nov. 5, 1895	6 00		
".....	".....	Jan. 23, 1896	8 00		
".....	".....	April 14, 1896	8 00		
D. H. Williams.....	Norris.....	Nov. 6, 1895	8 00		
".....	".....	Feb. 7, 1896	8 00		
".....	".....	April 1, 1896	8 00		
John M. Laws.....	Cuba.....	Nov. 7, 1895	6 00		
".....	".....	Jan. 22, 1896	6 00		
".....	".....	April 20, 1896	6 00		
W. Rutherford & Co.....	".....	Nov. 7, 1895	6 00		
".....	".....	Jan. 22, 1896	6 00		
".....	".....	May 21, 1896	6 00		
Wm. Nicholson & Son.....	".....	Nov. 7, 1895	6 00	Jan. 22...	6 00
".....	".....	Jan. 22, 1896	6 00		
".....	".....	April 20, 1896	6 00		
Bartlett & Bradley.....	".....	Nov. 7, 1895	6 00		
Turner Bros.....	Lewistown.....	" 8, 1895	6 00		
		Feb. 5, 1896	6 00		
Isaac Bath.....	".....	Nov. 8, 1895	6 00		
Robt. Roddis & Son.....	Ipava.....	" 8, 1895	6 00		
		May 11, 1896	6 00		
W. Willock.....	Astoria.....	Nov. 9, 1895	6 00		
John Dimond & Son.....	".....	" 9, 1895	6 00	Feb. 3...	6 00

## Financial Statement—Continued.

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Astoria Coal Mining Co.....	Astoria.....	Nov. 9, 1895	\$8 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	Feb. 6, 1896	8 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	May 14, 1896	6 00		
Maplewood Coal Mining Co.....	Peoria.....	Nov. 11, 1895	8 00		
" " " " " " " " " " " "	Farmington.....	Jan. 29, 1896	8 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	April 15, 1896	8 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	June 17, 1896	6 00		
Sunday Creek Coal Mining Co	" " " " " " " " " " " "	Nov. 11, 1895	6 00	March 12	86 00
" " " " " " " " " " " "	Middle Grove.....	" 12, 1895	8 00	" 12	8 00
" " " " " " " " " " " "	" " " " " " " " " " " "	Feb. 14, 1896	8 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	May 19, 1896	6 00		
Pieton, Enmons & Co.....	Farmington.....	Nov. 11, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	Jan. 30, 1896	6 00		
Cline & Sons.....	London Mills.....	Nov. 12, 1895	6 00	Jan. 30	6 00
John Abbadusky.....	Fairview.....	" 13, 1895	6 00	" 27	6 00
H. Tompkins.....	" " " " " " " " " " " "	" 13, 1895	6 00	Feb. 1	6 00
Peter Clary.....	" " " " " " " " " " " "	" 13, 1895	6 00	" 3	6 00
Charles Savill.....	Canton.....	Oct. 31, 1895	6 00		
S. A. Dray.....	Fairview.....	Nov. 13, 1895	6 00		
D. Marvell.....	" " " " " " " " " " " "	" 13, 1895	6 00		
Samuel Parr.....	" " " " " " " " " " " "	" 13, 1895	6 00		
John Fulmor.....	" " " " " " " " " " " "	" 13, 1895	6 00		
Henry Richter.....	Soperville.....	" 14, 1895	6 00		
George W. Essex.....	" " " " " " " " " " " "	" 14, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	March 14, 1896	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	May 5, 1896	6 00		
Reed & Pendergast.....	" " " " " " " " " " " "	Nov. 14, 1895	6 00		
Simpson & Sons.....	" " " " " " " " " " " "	" 14, 1895	6 00		
James Nelson.....	Knoxville.....	" 15, 1895	6 00	Jan. 25	6 00
M. R. Brown.....	" " " " " " " " " " " "	" 15, 1895	6 00		
W. H. Johnson.....	Appleton.....	" 15, 1895	6 00		
William Fish.....	" " " " " " " " " " " "	" 15, 1895	6 00		
Bowman Bros.....	Yates City.....	" 16, 1895	6 00		
Cummings & Grove.....	Rushville.....	" 19, 1895	6 00		
Kerr & Williams.....	" " " " " " " " " " " "	" 19, 1895	6 00		
Rufus Porter.....	Ray.....	" 19, 1895	6 00	Jan. 22	6 00
C. J. Chapman.....	" " " " " " " " " " " "	" 19, 1895	6 00		
John Fry.....	" " " " " " " " " " " "	" 19, 1895	6 00		
A. Winner.....	" " " " " " " " " " " "	" 19, 1895	6 00		
J. S. Kirkbride.....	Vermont.....	" 20, 1895	6 00		
J. C. Kirkbride.....	" " " " " " " " " " " "	" 20, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	April 28, 1896	6 00		
John Mitchell.....	" " " " " " " " " " " "	Nov. 20, 1895	6 00		
Arthur Geer & Co.....	" " " " " " " " " " " "	" 20, 1895	6 00		
Charles Wilson.....	Table Grove.....	" 21, 1895	6 00		
John Woodford.....	" " " " " " " " " " " "	" 21, 1895	6 00		
Leonard Hoopes.....	" " " " " " " " " " " "	" 21, 1895	6 00		
Canton Union Coal Co.....	Canton.....	Oct. 30, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	Dec. 5, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	April 6, 1896	6 00		
Samuel Hopper.....	Knoxville.....	Dec. 15, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	" 17, 1895	6 00		
Lundeen & Sholeen.....	" " " " " " " " " " " "	Nov. 15, 1895	6 00	Feb. 10	6 00
" " " " " " " " " " " "	" " " " " " " " " " " "	Dec. 17, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	June 15, 1895	6 00		
Lewis Nelson.....	Yates City.....	Nov. 15, 1895	6 00		
Lewis Tell.....	Vermont.....	" 20, 1895	6 00		
Quiney Coal Co., No. 36.....	Quiney.....	" 29, 1895	8 00	Feb. 5	8 00
" " " " " " " " " " " "	" " " " " " " " " " " "	Feb. 18, 1896	8 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	May 8, 1896	8 00		
Egerton Coal Co.....	Colchester.....	Nov. 30, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	Feb. 18, 1896	6 00		
Colchester Coal and Min'g Co	" " " " " " " " " " " "	Nov. 30, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	Feb. 18, 1896	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	May 8, 1896	6 00		
John Heland & Co.....	Augusta.....	Dec. 2, 1895	6 00		
J. W. Marks.....	" " " " " " " " " " " "	" 2, 1895	6 00	Jan. 21	6 00
Patrick Doyle.....	" " " " " " " " " " " "	" 2, 1895	6 00	" 25	6 00
M. F. Ray.....	" " " " " " " " " " " "	" 2, 1895	6 00		
Meredith Bros Co.....	" " " " " " " " " " " "	" 2, 1895	6 00		
" " " " " " " " " " " "	" " " " " " " " " " " "	May 25, 1896	6 00		
Foraker & Murray.....	Marjetta.....	Dec. 3, 1895	6 00		
Theodore Anderson.....	" " " " " " " " " " " "	" 3, 1895	6 00		

*Financial Statement—Continued.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
James Lloyd.....	Canton.....	Dec.	6, 1895	86 00	
Thomas Waremouth.....	Youngstown.....	"	10, 1895	6 00	
W. R. Thomas & Co.....	"	"	10, 1895	6 00	
Samuel White.....	Roseville.....	"	10, 1895	6 00	
Bird Lievrance Co.....	"	"	11, 1895	6 00	
Harry Little.....	"	"	11, 1895	6 00	Dec. 11 86 00
Gilroy & Selkirk.....	Monmouth.....	June	27, 1896	6 00	
John Smcox.....	Alexis.....	Dec.	11, 1895	6 00	
William Cook Co.....	"	"	12, 1895	6 00	
C. F. McCartney Co.....	"	"	12, 1895	6 00	
H. Taylor Co.....	Wataga.....	May	6, 1896	6 00	
"	"	Dec.	17, 1895	6 00	
"	"	March	18, 1896	6 00	
"	"	June	16, 1896	6 00	
J. N. Tyler.....	Morris.....	Jan.	4, 1896	6 00	
Cyrus Walck.....	Norris.....	"	4, 1896	6 00	
W. H. Roseboom.....	"	"	4, 1896	6 00	
Henry Bell.....	"	"	5, 1896	6 00	
Nathaniel Peterson.....	Breeds.....	"	6, 1896	6 00	
Charles Snyder.....	Banner.....	"	6, 1896	6 00	
Fred Neuseker.....	Avon.....	"	8, 1896	6 00	
LaFayette Smith.....	"	"	8, 1896	6 00	
Thomas Caldwell.....	"	"	8, 1896	6 00	
Henry Chatterton.....	"	"	9, 1896	6 00	
Patrick Henry Tanner.....	"	"	9, 1896	6 00	
Cunningham & Fullerton.....	"	"	9, 1896	6 00	
Fred Steinegger.....	"	"	9, 1896	6 00	
Willis Clayton.....	"	"	9, 1896	6 00	
Leslie Loperman.....	Rapatee.....	"	11, 1896	6 00	
Able DeWitt.....	"	"	11, 1896	6 00	
E. M. Morris.....	"	"	11, 1896	6 00	
James Taylor.....	Wataga.....	"	14, 1896	6 00	
J. A. Anderson.....	"	"	14, 1896	6 00	
James McGovern.....	Oneida.....	"	14, 1896	6 00	May 6 6 00
Charles Morgan.....	"	"	14, 1896	6 00	
George Clifford, No. 1.....	"	"	15, 1896	6 00	Feb. 21 6 00
No. 2.....	"	"	15, 1896	6 00	21 6 00
N. Anderson.....	Wataga.....	"	15, 1896	6 00	
William P. Suggett.....	"	June	16, 1896	6 00	
Lewistown Coal Co.....	Breeds.....	Feb.	4, 1896	6 00	
"	Lewistown.....	"	5, 1896	6 00	
Jacob Bath.....	"	May	1, 1896	6 00	
Gordon & Bush.....	Cuba.....	Feb.	13, 1896	6 00	
Ole Waddell.....	Monmouth.....	"	17, 1896	6 00	
Fergo Whalen.....	Tennessee.....	"	18, 1896	6 00	
John Lowery.....	"	"	18, 1896	6 00	
Luke Stone.....	Colchester.....	"	19, 1896	6 00	
J. B. Wall.....	"	"	19, 1896	6 00	
S. J. Breynt.....	"	"	19, 1896	6 00	
Godfrey & Booth.....	"	"	19, 1896	6 00	
Kessler, Stevens & Green Bros	"	"	19, 1896	6 00	
D. B. Sherlin.....	"	"	20, 1896	6 00	
L. H. Vest.....	"	"	20, 1896	6 00	
W. G. Stoke & Co.....	Leaman.....	March	2, 1896	6 00	
Richard Blagden.....	"	"	2, 1896	6 00	
Newton Brush.....	Marietta.....	"	2, 1896	6 00	
Lewis Huff.....	"	"	2, 1896	6 00	
Ross & Wadword.....	Soperville.....	"	4, 1896	6 00	
Samuel Jones.....	Augusta.....	"	11, 1896	6 00	
Thomas Johnson.....	Victoria.....	"	12, 1896	6 00	
David Grimm.....	"	"	12, 1896	6 00	
C. G. Bangston.....	Wataga.....	"	18, 1896	6 00	
Lewis Whittles.....	Bernadotte.....	"	19, 1896	6 00	
Peter Dolan.....	Wataga.....	"	18, 1896	6 00	
Schuyler Williams.....	Bernadotte.....	"	19, 1895	6 00	
S. Moore & S. Gregory.....	Frederick.....	"	20, 1896	6 00	
C. J. Pickering.....	Table Grove.....	"	19, 1896	6 00	May 11 6 00
H. Wernore.....	Frederick.....	"	20, 1896	6 00	
Peter Kittle.....	New Philadelphia.....	"	23, 1896	6 00	
James Foster.....	"	"	23, 1896	6 00	
Wilson & Buley.....	"	"	23, 1896	6 00	
W. M. Ealy.....	"	"	23, 1896	6 00	
Joseph Clark.....	"	"	23, 1896	6 00	

*Financial Statement—Third District—Concluded.*

Name of Firm, Company or Persons Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
John Scherky.....	New Philadelphia	March 23, 1896	\$6 00		
Chas. Enger.....	Golden.....	" 24, 1896	6 00		
C. Teel.....	Industry.....	" 25, 1896	6 00		
Frank Burdick.....		" 25, 1896	6 00		
Wilson & Foster.....	Blendensville.....	April 3, 1896	6 00		
A. L. Reneau.....	Bushnell.....	" 4, 1896	6 00		
Wm. Baker.....	Industry.....	March 25, 1896	6 00		
Chas. Shaw.....	Fulton.....	Feb. 13, 1896	6 00		
		May 12, 1896	6 00		
Farmington Coal Co.....	Farmington.....	April 15, 1896	6 00		
		Jan. 29, 1896	6 00		
John F. Weir.....	Yates City.....	April 27, 1896	6 00		
John Kerr.....	Rushville.....	" 27, 1896	6 00		
Leroy Casler.....	Lewistown.....	May 1, 1896	6 00		
Z. P. Dudley.....	Knoxville.....	June 18, 1896	6 00		
Peter Linback.....	Wataga.....	" 16, 1896	6 00		
A. Wedmore.....	Frederick.....	" 20, 1896	6 00		
Theo. Pumyea.....	Fairview.....	" 22, 1896	6 00		
R. E. Gould & Co.....	".....	" 22, 1896	6 00		
Aylsworth & Brown.....	".....	" 22, 1896	6 00		
A. Y. Welsh.....	Monmouth.....	" 26, 1896	6 00		
Abraham Bath.....	St. David.....	" 30, 1896	6 00		
Leonard Snyder.....	".....	" 30, 1896	6 00		
Wm. Jordan & Son.....	".....	" 30, 1896	6 00		



## FINANCIAL STATEMENT.

*Report of Inspection of Mines, Showing Number of Inspections made, Amounts charged and Money Received for the Year Ending July 1, 1896—Fourth Inspection District.*

H. E. MALLOY, Inspector.

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Con. Coal Co., No. 4.....	Danville.....	Nov. 11, 1895	\$10 00	.....	.....
"    Fairmount.....	Fairmount.....	12, 1895	8 00	.....	.....
"    Mission Field...	Danville.....	15, 1895	8 00	.....	.....
"    Fairmount.....	Fairmount.....	Jan. 15, 1896	8 00	.....	.....
"    No. 4.....	Danville.....	16, 1896	10 00	.....	.....
"    ".....	Tilton.....	April 9, 1896	10 00	.....	.....
"    Fairmount.....	Fairmount.....	23, 1896	8 00	.....	.....
D. P. Wilson, No. 1.....	Grape Creek.....	Oct. 28, 1895	6 00	.....	.....
"    No. 4.....	".....	Jan. 8, 1896	6 00	.....	.....
"    ".....	".....	April 6, 1896	6 00	.....	.....
Del. Coal and Mining Co., No. 1	Danville.....	Oct. 29, 1895	8 00	Feb. 17, '96	\$8 00
"    No. 2.....	".....	Jan. 29, 1895	6 00	.....	6 00
"    ".....	".....	Jan. 9, 1896	8 00	.....	.....
"    ".....	Cokeville.....	April 2, 1896	10 00	.....	.....
J. H. Bunting Co., No. 1.....	Grape Creek.....	Oct. 30, 1895	6 00	.....	.....
"    ".....	".....	Jan. 21, 1896	6 00	.....	.....
"    ".....	".....	April 11, 1896	6 00	.....	.....
C. M. Hay, No. 1.....	".....	Oct. 30, 1895	6 00	.....	.....
"    ".....	".....	Jan. 21, 1896	6 00	.....	.....
"    ".....	".....	April 6, 1896	6 00	.....	.....
A. M. Bushong, No. 1.....	".....	Oct. 30, 1895	6 00	.....	.....
"    ".....	".....	Jan. 21, 1896	6 00	.....	.....
"    ".....	".....	April 11, 1896	6 00	.....	.....
Perry Jumps, No. 1.....	".....	Oct. 30, 1895	6 00	.....	.....
"    2.....	".....	Jan. 31, 1895	6 00	.....	.....
"    2.....	".....	Jan. 8, 1896	6 00	.....	.....
"    1.....	".....	Jan. 21, 1896	6 00	.....	.....
"    3.....	".....	April 6, 1896	6 00	.....	.....
"    2.....	".....	Jan. 6, 1896	6 00	.....	.....
"    1.....	".....	Jan. 11, 1896	6 00	.....	.....
C. & W. Reilly.....	Danville.....	Oct. 30, 1895	6 00	.....	.....
M. Kelly Coal Co., No. 1.....	Kellyville.....	Jan. 31, 1895	8 00	.....	.....
"    2.....	".....	Nov. 6, 1895	10 00	.....	.....
"    2.....	".....	Jan. 10, 1896	10 00	.....	.....
"    ".....	Westville.....	Jan. 18, 1896	6 00	.....	.....
"    1.....	Kellyville.....	Jan. 20, 1896	8 00	.....	.....
"    1.....	Grape Creek.....	April 10, 1896	8 00	.....	.....
"    3.....	Westville.....	Jan. 21, 1896	6 00	.....	.....
"    2.....	Kellyville.....	Jan. 27, 1896	10 00	.....	.....
Hume & O'Connell.....	Grape Creek.....	Oct. 31, 1895	6 00	.....	.....
"    ".....	".....	Jan. 20, 1896	6 00	.....	.....
"    ".....	".....	April 10, 1896	6 00	.....	.....
C. H. Trospen.....	".....	Oct. 31, 1895	6 00	.....	.....
"    ".....	".....	Jan. 8, 1896	6 00	.....	.....
Pawnee Coal Co., No. 1 (Danville, Ill.).....	".....	Oct. 31, 1895	10 00	Jan. 18	10 00
Pawnee Coal Co.....	Westville.....	Nov. 22, 1895	10 00	"    18	10 00
"    ".....	".....	Jan. 17, 1896	10 00	May 6	10 00

*Financial Statement—Continued.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Pawnee Coal Co.....	Westville.....	April 3, 1896	\$10 00		
Westville Coal Co.....	Pawnee.....	7, 1896	10 00		
"	Westville.....	Nov. 5, 1895	6 00		
"	"	Jan. 13, 1896	8 00		
D. A. Jenkins, No. 1.....	Danville.....	April 28, 1896	8 00		
"	"	Nov. 4, 1895	6 00		
Catlin Coal Co., No. 1.....	Catlin.....	Jan. 24, 1896	6 00		
"	"	Nov. 6, 1895	6 00	Jan. 31	\$6 00
"	"	Jan. 23, 1896	8 00		
France Bros.....	"	April 25, 1896	6 00		
"	"	Nov. 13, 1895	6 00	Feb. 17	6 00
John F. Teeter.....	"	Feb. 11, 1896	6 00		
A. H. Bonnett.....	New Town.....	Nov. 13, 1895	6 00	Feb. 17	6 00
Stanbury & Watkins.....	Danville.....	Jan. 14, 1895	6 00		
"	"	Feb. 5, 1896	6 00		
L. E. Baker.....	Oakwood.....	Nov. 15, 1895	6 00		
"	"	Feb. 10, 1896	6 00		
T. J. Jones.....	Catlin.....	Nov. 15, 1895	6 00		
Arthur Jones.....	"	15, 1895	6 00	Feb. 5	6 00
Glenburn Coal Co.....	Glenburn.....	" 18, 1895	10 00	Jan. 28	10 00
"	"	Jan. 27, 1896	8 00	May 4	8 00
"	"	April 29, 1896	10 00		
Muncie Coal Co.....	Muncie.....	Nov. 19, 1895	6 00		
"	"	Jan. 28, 1896	6 00		
"	"	April 9, 1896	6 00		
Mauck Bros.....	Danville.....	Nov. 20, 1895	6 00		
"	Batestown.....	Jan. 29, 1896	6 00		
"	Danville.....	April 13, 1896	6 00		
Louis Pichon.....	"	Nov. 20, 1895	6 00		
"	Batestown.....	Jan. 29, 1896	6 00		
Economy Coal Co.....	Danville.....	Apr. 13, 1896	6 00		
"	"	Nov. 20, 1895	6 00		
"	"	Jan. 29, 1896	6 00		
D. P. Beatty.....	"	Apr. 13, 1896	6 00		
"	"	Nov. 20, 1895	6 00		
Elisha Lloyd.....	"	Jan. 22, 1896	6 00		
"	"	Nov. 21, 1895	6 00		
"	"	Jan. 30, 1896	6 00		
S. Parle.....	"	Apr. 14, 1896	6 00		
"	"	Nov. 21, 1895	6 00		
"	"	Jan. 30, 1896	6 00		
J. E. Lloyd.....	"	Apr. 14, 1896	6 00		
"	"	Nov. 21, 1895	6 00	Feb. 4	6 00
"	"	Jan. 30, 1896	6 00		
John Mabaker.....	"	Apr. 14, 1896	6 00		
"	"	Nov. 21, 1895	6 00		
Benj. Beddow.....	"	Jan. 31, 1896	6 00		
"	"	Nov. 21, 1895	6 00		
Thomas Atkinson.....	"	Jan. 31, 1896	6 00		
Chas. Hatfield.....	"	Nov. 21, 1895	6 00		
Athens Coal Co.....	Athens.....	Dec. 2, 1895	8 00		
"	"	Feb. 14, 1896	8 00		
"	"	May 15, 1896	8 00		
Albert Widner.....	Danville.....	Nov. 22, 1895	6 00		
"	"	Jan. 30, 1896	6 00		
O'Toole & Orr.....	"	Nov. 22, 1895	6 00		
"	"	Jan. 30, 1896	6 00		
Evan J. Jones.....	Catlin.....	Nov. 25, 1895	6 00		
Warren Neel.....	"	Nov. 25, 1895	6 00		
Elmer Allison.....	Danville.....	Nov. 26, 1895	6 00		
"	"	Feb. 4, 1896	6 00		
Samuel Ogle.....	"	Nov. 27, 1895	6 00		
"	"	Feb. 4, 1896	6 00		
George W. Watts.....	"	Nov. 27, 1895	6 00		
"	"	Feb. 5, 1896	6 00		
Chas. Wilson.....	"	Nov. 27, 1895	6 00		
H. E. Harrington.....	"	Nov. 27, 1895	6 00		
W. L. Grace.....	Bethel.....	Nov. 29, 1895	6 00		
Wabash Coal Co.....	Athens.....	Dec. 3, 1895	8 00		
"	"	Feb. 15, 1896	8 00		
"	"	May 16, 1896	8 00		
South Valley Coal Co.....	Petersburg.....	Dec. 4, 1895	6 00		
"	"	Feb. 17, 1896	6 00		
"	"	May 19, 1896	6 00		

*Financial Statement—Continued.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Lankford & Hughes.....	Petersburg.....	Dec. 4, 1895	\$6 00	.....	.....
" " .....	" " .....	Feb. 17, 1896	6 00	.....	.....
" " .....	" " .....	May 19, 1896	6 00	.....	.....
Chicago & Kansas City Coal Co	" " .....	Dec. 5, 1895	8 00	.....	.....
" " .....	" " .....	Feb. 18, 1896	8 00	.....	.....
" " .....	" " .....	May 18, 1896	8 00	.....	.....
J. B. Gaffigan & Co.....	" " .....	Dec. 5, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 18, 1896	6 00	.....	.....
Greenview Coal Co.....	Greenview .....	Dec. 6, 1895	8 00	.....	.....
" " .....	" " .....	Feb. 19, 1896	8 00	.....	.....
" " .....	" " .....	May 20, 1896	8 00	.....	.....
Wm. Parkins.....	Sweetwater.....	Dec. 6, 1895	6 00	Jan. 29	\$6 00
Tallula Coal Co.....	Tallula.....	Dec. 9, 1895	6 00	Feb. 10	6 00
" " .....	" " .....	Feb. 20, 1896	6 00	.....	.....
" " .....	" " .....	May 21, 1896	6 00	.....	.....
J. S. & G. S. Russe.....	Ashland.....	Dec. 9, 1895	6 00	Jan. 29	6 00
" " .....	" " .....	Feb. 20, 1896	6 00	.....	.....
" " .....	" " .....	May 21, 1896	6 00	.....	.....
Virginia Coal Co.....	Virginia.....	Dec. 10, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 21, 1896	6 00	.....	.....
" " .....	" " .....	May 22, 1896	6 00	.....	.....
Chris. Nelson.....	Chandlerville.....	Dec. 11, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 21, 1896	6 00	.....	.....
Klock & Teeter.....	" " .....	Dec. 11, 1895	6 00	.....	.....
Bohlender Bros.....	Pekin.....	Dec. 12, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 24, 1896	6 00	.....	.....
" " .....	" " .....	May 23, 1896	6 00	.....	.....
Louis Grant & Sons.....	" " .....	Dec. 12, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 24, 1896	6 00	.....	.....
" " .....	" " .....	May 23, 1896	6 00	.....	.....
" " .....	" " .....	Dec. 13, 1895	6 00	.....	.....
Hawley Coal Co.....	" " .....	Dec. 14, 1895	6 00	.....	.....
Hillard & Lenard.....	Wesley.....	Dec. 14, 1895	6 00	.....	.....
German Cooperative Co., P. O.	" " .....	Dec. 14, 1895	6 00	.....	.....
Orchard Mines.....	" " .....	Dec. 14, 1895	6 00	.....	.....
German Cooperative Co., P. O.	" " .....	Dec. 14, 1895	6 00	.....	.....
Orchard Mines.....	Hollis.....	Feb. 24, 1896	6 00	.....	.....
German Cooperative Co., P. O.	" " .....	May 20, 1896	6 00	.....	.....
Orchard Mines.....	" " .....	Dec. 16, 1895	6 00	.....	.....
Ph. Beetler.....	East Peoria.....	Dec. 16, 1895	6 00	Feb. 14	6 00
" " .....	" " .....	Feb. 25, 1896	6 00	.....	.....
" " .....	" " .....	May 26, 1896	6 00	.....	.....
G. Giebelhausen.....	" " .....	Dec. 16, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 25, 1896	6 00	.....	.....
Reynolds & Williams.....	" " .....	Dec. 16, 1895	6 00	Feb. 25	6 00
" " .....	" " .....	Feb. 25, 1896	6 00	.....	.....
" " .....	" " .....	May 26, 1896	6 00	.....	.....
Harvey & Blake.....	" " .....	Dec. 16, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 27, 1896	6 00	.....	.....
" " .....	" " .....	May 27, 1896	6 00	.....	.....
Rusche Bros.....	" " .....	Dec. 16, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 26, 1896	6 00	.....	.....
" " .....	" " .....	May 28, 1896	6 00	.....	.....
East Peoria Coal Co.....	" " .....	Dec. 16, 1895	6 00	.....	.....
" " .....	" " .....	May 28, 1896	6 00	.....	.....
W. F. Doering Co.....	" " .....	Dec. 17, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 25, 1896	6 00	.....	.....
Becker Bros., P. O. Peoria.....	" " .....	Dec. 17, 1895	6 00	Mar. 21	6 00
" " .....	" " .....	Feb. 26, 1896	6 00	.....	.....
" " .....	" " .....	May 27, 1896	6 00	.....	.....
Davis Coal Co.....	Chenoa.....	Dec. 18, 1895	6 00	.....	.....
" " .....	" " .....	Feb. 28, 1896	10 00	.....	.....
McLean Coal Co.....	Bloomington.....	Dec. 18, 1895	10 00	Jan. 31	10 00
" " .....	" " .....	Feb. 29, 1896	10 00	.....	.....
" " .....	" " .....	May 5, 1896	6 00	.....	.....
Colfax Coal & Mining Co.....	Colfax.....	Dec. 19, 1895	6 00	.....	.....
" " .....	" " .....	Mar. 2, 1896	6 00	.....	.....
" " .....	" " .....	May 7, 1896	6 00	.....	.....
Lincoln Coal Co.....	Lincoln.....	Dec. 20, 1895	8 00	.....	.....
" " .....	" " .....	Mar. 3, 1896	8 00	.....	.....
" " .....	" " .....	May 8, 1896	8 00	.....	.....
Citizens' Coal Co.....	" " .....	Dec. 21, 1895	8 00	.....	.....
" " .....	" " .....	Mar. 4, 1896	8 00	.....	.....
" " .....	" " .....	May 9, 1896	8 00	.....	.....
Union Mining & Coal Co.....	Mt. Pulaski.....	Dec. 23, 1895	6 00	Jan. 23	6 00
" " .....	" " .....	Mar. 4, 1896	6 00	.....	.....

*Financial Statement—Concluded.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Decatur Coal Co., No. 2.....	Decatur .....	Dec. 24, 1895	\$8 00	.....	.....
" " No. 1.....	" " .....	" 26, 1895	10 00	.....	.....
" " Niantic .....	Niantic .....	" 27, 1895	8 00	.....	.....
" " No. 2.....	Decatur .....	Mar. 5, 1896	8 00	.....	.....
" " No. 1.....	" " .....	" 6, 1896	10 00	.....	.....
" " Niantic .....	Niantic .....	" 11, 1896	6 00	.....	.....
" " No. 2.....	Decatur .....	May 12, 1896	8 00	.....	.....
" " No. 1.....	" " .....	" 13, 1896	8 00	.....	.....
" " Niantic .....	Niantic .....	" 14, 1896	6 00	.....	.....
E. S. Gray .....	Danville .....	Jan. 22, 1896	6 00	.....	.....
" " .....	" " .....	April 14, 1896	6 00	.....	.....
Haleyross & Thomas.....	" " .....	Jan. 24, 1896	6 00	.....	.....
W. C. Wilkinson .....	" " .....	" 24, 1896	6 00	.....	.....
Jos. Kelley.....	" " .....	" 25, 1896	6 00	.....	.....
Wm. H. Jenkins.....	" " .....	" 25, 1896	6 00	.....	.....
Wm. Aldredge.....	" " .....	" 30, 1896	6 00	.....	.....
Wm. Ray.....	" " .....	" 31, 1896	6 00	.....	.....
David Harrington.....	" " .....	Feb. 4, 1896	6 00	.....	.....
Thos. E. Ashman.....	" " .....	" 5, 1896	6 00	.....	.....
John Woodard .....	Oakwood .....	" 10, 1896	6 00	.....	.....
Wm. Denton.....	Petersburg .....	" 17, 1896	6 00	.....	.....
" " .....	" " .....	May 19, 1896	6 00	.....	.....
Klock & Haryesburk .....	Chandlerville ....	Feb. 21, 1896	6 00	.....	.....
Hawley Coal Co .....	Pekin .....	" 24, 1896	6 00	.....	.....

## FINANCIAL STATEMENT.

*Report of Inspection of Mines Showing Number of Inspections Made, Amounts Charged and Money Received for Year Ending July 1, 1896—Fifth Inspection District.*

JOHN KEAY, Inspector.

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Cons. Coal Co., Staunton No. 6.	Staunton.....	Nov. 12, 1895	\$10 00		
" " " " No. 7.	" " " " " "	13, 1895	8 00		
" " " " Mt. Olive No. 8.	Mt. Olive.....	15, 1895	10 00		
" " " " No. 10	" " " " " "	20, 1895	10 00		
" " " " Gillespie.....	Gillespie.....	23, 1895	8 00		
" " " " Clyde.....	Hornsby.....	25, 1895	8 00		
" " " " Staunton No. 7.	Staunton.....	Mar. 12, 1896	10 00		
" " " " No. 6.	" " " " " "	13, 1896	10 00		
" " " " Mt. Olive No. 8.	Mt. Olive.....	17, 1896	10 00		
" " " " No. 10	" " " " " "	18, 1896	10 00		
" " " " Gillespie.....	Gillespie.....	20, 1896	8 00		
" " " " Clyde.....	Hornsby.....	21, 1896	8 00		
" " " " Staunton No. 6.	Staunton.....	June 18, 1896	10 00		
" " " " No. 7.	" " " " " "	19, 1896	10 00		
" " " " Mt. Olive No. 8.	Mt. Olive.....	20, 1896	10 00		
" " " " No. 10	" " " " " "	23, 1896	10 00		
Litchfield M. & P. Co.....	Litchfield.....	Oct. 29, 1895	6 00		
" " " " " "	" " " " " "	Mar. 19, 1896	6 00		
" " " " " "	" " " " " "	June 24, 1896	6 00		
Litchfield M. & M. Co.....	" " " " " "	Oct. 29, 1895	6 00		
" " " " " "	" " " " " "	Mar. 19, 1896	6 00		
" " " " " "	" " " " " "	June 24, 1896	6 00		
Coffeen Coal & Copper Co.....	Coffeen.....	Nov. 1, 1895	8 00		
" " " " " "	" " " " " "	Mar. 24, 1896	8 00		
Hillsboro Coal Co.....	Hillsboro.....	Nov. 4, 1895	8 00		
" " " " " "	" " " " " "	Mar. 25, 1896	10 00		
Madison Coal Co., No. 5.....	Mt. Olive.....	Nov. 14, 1895	10 00		
Sangamon Coal Co.....	Springfield.....	18, 1895	8 00		
" " " " " "	" " " " " "	Feb. 14, 1896	8 00		
Woodside Coal Co.....	" " " " " "	Dec. 2, 1895	8 00		
" " " " " "	" " " " " "	Feb. 4, 1896	8 00		
" " " " " "	" " " " " "	April 4, 1896	8 00		
Penwell C. M. Co.....	Pana.....	Nov. 27, 1895	10 00	Mar. 21	\$10 00
" " " " " "	" " " " " "	Mar. 27, 1896	10 00	June 8	10
Pana Coal Co., No. 2	" " " " " "	Dec. 4, 1895	8 00		
" " " " No. 1	" " " " " "	5, 1895	10 00		
" " " " No. 1	" " " " " "	May 16, 1896	10 00		
Springfield C. M. Co.....	" " " " " "	Dec. 6, 1895	8 00		
" " " " " "	" " " " " "	May 15, 1896	10 00		
Taylorville Coal Co.....	Taylorville.....	Dec. 7, 1895	10 00	Jan. 18	10 00
" " " " " "	" " " " " "	June 13, 1896	10 00		
Smith & Williams.....	Edinburg.....	Dec. 14, 1895	6 00		
Carlinville Coal Co.....	Carlinville.....	16, 1895	8 00		
" " " " " "	" " " " " "	April 29, 1896	6 00		
Nilwood Carbon Coal Co.....	Nilwood.....	Dec. 17, 1895	6 00		
" " " " " "	" " " " " "	April 30, 1896	6 00		
Girard Coal Co.....	Girard.....	Dec. 17, 18, 1896	8 00	Feb. 18	8 00
" " " " " "	" " " " " "	May 2, 1896	8 00		
Green Ridge Coal Co.....	" " " " " "	Dec. 9, 1895	8 00	Feb. 18	8 00
" " " " " "	" " " " " "	May 1, 1896	8 00		

*Financial Statement—Concluded.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Virden Coal Co.....	Virden.....	Dec. 20, 1895	\$8 00		
Chicago-Virden Coal Co.....	".....	21, 1895	10 00	Mar. 13..	\$10 00
Assumption C. & M. Co.....	Assumption.....	May 22, 1896	10 00		
		Dec. 23, 1895	8 00	Feb. 13..	8 00
Moweaqua C. M. Mfg. Co.....	Moweaqua.....	May 14, 1896	8 00		
		Dec. 21, 1896	6 00	Feb. 26..	6 00
Wabash Coal Co.....	Dawson.....	May 13, 1896	6 00		
		Nov. 9, 1895	8 00	Jan. 24..	8 00
Springfield Coop. Coal Co.....	Springfield.....	April 9, 1896	8 00		
		Feb. 1, 1896	8 00		
Black Diamond Coal & Tile Co	".....	8, 1896	6 00		
		Feb. 5, 1896	6 00		
Citizens' Coal Mining Co.....	".....	April 25, 1896	6 00		
West End Coal Co.....	".....	Feb. 6, 1896	8 00		
		Feb. 7, 1896	8 00		
Capital Coal Co.....	".....	April 18, 1896	6 00		
		Feb. 11, 1896	8 00		
		13, 1896	6 00		
		May 26, 1896	6 00		
Starne Coal Mining Co.....	".....	Feb. 15, 1896	8 00		
		Ap il 23, 1896	6 00		
Clear Lake Cooperative Coal Co	".....	Feb. 17, 1896	8 00		
Springfield Junction Coal Co..	".....	20, 1896	8 00		
Riverton Coal Co.....	Riverton.....	Mar. 5, 1896	10 00		
		6, 7, 1896	8 00		
Cantrall Cooperative Coal Co..	Cantrall.....	" 10, 1896	8 00		
Mount Olive Coal Co., P. O. St. Louis.....	Mt. Olive.....	Mar. 14, 1896	10 00		
Mount Olive Coal Co., P. O. St. Louis.....	".....	June 22, 1896	10 00		
Wm. Neil & Co.....	Bunker Hill.....	Mar. 20, 1896	6 00		
Williamsville Coal Co.....	Williamsville.....	April 6, 1896	6 00		
Golliday & B. andt.....	Salisbury.....	15, 1896	6 00		
W. H. Werries.....	Chapin.....	May 5, 1896	6 00		
Wilson & Longdon.....	".....	5, 1896	6 00		
Chas. Ruh.....	Exeter.....	" 5, 1896	6 00		
W. H. Bates.....	Winchester.....	" 6, 1896	6 00		
T. W. Griffith.....	Whitehall.....	" 6, 1896	6 00		
J. F. Revis.....	Roodhouse.....	" 7, 1896	6 00		
Felix Brown.....	".....	" 7, 1896	6 00		
James Minks.....	".....	" 7, 1896	6 00		
Benj. Cummings.....	".....	" 7, 1896	6 00		
Davis J. Wyatt.....	Whitehall.....	" 7, 1896	6 00		
Whitehall Fire Clay Works..	".....	" 7, 1896	6 00		
John Griffith.....	Roodhouse.....	" 7, 1896	6 00		
Michael Murphy.....	Alsey.....	" 8, 1896	6 00		
Chas. McGuire.....	".....	" 8, 1896	6 00		
Jesse Cameron.....	".....	" 8, 1896	6 00		
J. W. Ellsworth.....	Virden.....	" 23, 1896	8 00		
Springfield and Pleasant Plains Coal Co.....	Pleasant Plains ..	Mar. 31, 1896	6 00		
J. Murphy.....	Chatham.....	30, 1896	6 00		
D. J. Lloyd.....	Pawnee.....	Jan. 23, 1896	6 00		
Auburn Coal Co.....	Auburn.....	" 23, 1896	6 00		
Sugar Creek Coal Mining Co..	".....	" 23, 1896	8 00		
		April 22, 1896	10 00		
Barclay Coal Mining Co.....	Springfield.....	Jan. 21, 1896	8 00		
Walton Rutledge.....	Spaulding.....	" 29, 1896	6 00		
Springfield Coal Mining and Tile Co.....	Springfield.....	" 30, 1896	8 00		
Springfield Coal Mining and Tile Co.....	".....	April 18, 1896	8 00		
Springfield and Wilmington Coal Co.....	".....	Jan. 31, 1896	8 00		
Springfield and Wilmington Coal Co.....	".....	April 20, 1896	8 00		

## FINANCIAL STATEMENT.

*Showing Number of Inspections Made, Amounts Charged and Money Received for Year Ending July 1, 1896—Sixth Inspection District.*

T. S. CUMMING, Inspector.

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Consolidated Coal Co.—					
Abbey, No. 3.....	Collinsville.....	Nov. 2, 1895	\$8 00		
Green Mount, No. 1.....	Belleville.....	" 8, 1895	6 00		
Rose Hill.....	".....	" 8, 1895	6 00		
Pittsburg.....	".....	" 27, 1895	6 00		
No. 12.....	Worden.....	Dec. 13, 1895	6 00		
McDonald.....	".....	" 13, 1895	6 00		
Mentor.....	Ridge Prairie.....	" 16, 1895	6 00		
Richland.....	Belleville.....	" 17, 1895	6 00		
Schureman.....	".....	" 18, 1895	6 00		
Trenton.....	Trenton.....	" 19, 1895	10 00		
Breese.....	Breese.....	" 20, 1895	8 00		
Abbey, No. 4.....	Collinsville.....	" 23, 1895	6 00		
Gartside, No. 4.....	Lenz Station.....	Jan. 4, 1896	6 00		
Alma.....	Ridge Prairie.....	" 13, 1896	8 00		
White Oak.....	Marissa.....	" 15, 1896	6 00		
Marissa.....	".....	" 16, 1896	6 00		
Brookside.....	Troy.....	" 25, 1896	8 00		
Heinz Bluff.....	Collinsville.....	" 29, 1896	8 00		
Troy.....	".....	" 30, 1896	8 00		
Knecht.....	Birkner.....	Feb. 3, 1896	6 00		
Pittsburg.....	Belleville.....	" 7, 1896	6 00		
Green Mount.....	".....	" 27, 1896	6 00		
Rose Hill.....	".....	" 28, 1896	6 00		
Schureman.....	".....	March 2, 1896	6 00		
Gartside.....	Lenz.....	" 16, 1896	6 00		
Mentor.....	Alma.....	" 20, 1896	6 00		
Trenton.....	Trenton.....	" 24, 1896	8 00		
Breese.....	Breese.....	" 26, 1896	8 00		
Abbey, No. 4.....	Collinsville.....	April 14, 1896	6 00		
White Oak.....	Marissa.....	" 22, 1896	6 00		
Marissa.....	".....	" 23, 1896	6 00		
Alma.....	Ridge Prairie.....	" 24, 1896	6 00		
Abbey, No. 1.....	Collinsville.....	" 27, 1896	8 00		
Heinz Bluff.....	".....	" 28, 1896	8 00		
Brookside.....	Troy.....	" 29, 1896	6 00		
Troy.....	".....	" 29, 1896	6 00		
Richland.....	Belleville.....	May 4, 1896	6 00		
Green Mount.....	".....	June 10, 1896	6 00		
Breese.....	Breese.....	" 11, 1896	6 00		
Trenton.....	Trenton.....	" 12, 1896	8 00		
Knecht.....	Birkner.....	" 15, 1896	6 00		
Mentor.....	Alma.....	" 17, 1896	6 00		
Rose Hill.....	Belleville.....	" 22, 1896	6 00		
Skellet Coal Co.....	Swansea.....	Nov. 25, 1895	6 00		
Oakland Coal Co.....	Belleville.....	" 26, 1895	6 00		
	Lenz.....	May 20, 1896	6 00		





*Financial Statement—Concluded.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
Maule Coal Co., No. 1.....	Belleville.....	Nov. 22, 1895	\$6 00	.....	.....
" " No. 2.....	" ".....	23, 1895	6 00	.....	.....
" " No. 1.....	" ".....	June 24, 1896	8 00	.....	.....
Kolb Coal Co.....	Mascoutah.....	Jan. 2, 1896	6 00	June 29	\$6 00
" ".....	" ".....	March 23, 1896	6 00	" 29	6 00
" ".....	" ".....	June 26, 1896	6 00	.....	.....
Jas. Beatty & Co.....	" ".....	Jan. 2, 1896	6 00	.....	.....
" ".....	" ".....	March 23, 1896	6 00	.....	.....
New Athens Coal Co.....	New Athens.....	Jan. 9, 1896	6 00	.....	.....
Western C. M. Co.....	Lenzburg.....	" 9, 1896	6 00	.....	.....
Terri Coal Co.....	" ".....	" 9, 1896	6 00	.....	.....
" ".....	" ".....	April 9, 1896	6 00	.....	.....
Wm. Piston.....	Millstadt.....	Jan. 10, 1896	6 00	May 8	6 00
" ".....	" ".....	April 17, 1896	6 00	.....	.....
Millstadt C. & M. Co.....	" ".....	Jan. 10, 1896	6 00	.....	.....
" ".....	" ".....	April 17, 1896	6 00	.....	.....
Jos. Taylor (P. O. O'Fallon).....	Alma.....	Jan. 13, 1896	6 00	.....	.....
" ".....	O'Fallon.....	June 17, 1896	8 00	.....	.....
Dutch Hollow C. Co. (P. O. St. L.).....	Freeburg.....	Jan. 14, 1896	6 00	.....	.....
" ".....	" ".....	Dec. 10, 1895	6 00	.....	.....
" ".....	" ".....	June 20, 1896	6 00	.....	.....
Advance Coal Co.....	Marissa.....	Jan. 15, 1896	6 00	.....	.....
" ".....	" ".....	April 23, 1896	6 00	.....	.....
Johnson Coal Co. (P. O. St. L.).....	" ".....	Jan. 16, 1896	6 00	.....	.....
" ".....	" ".....	April 22, 1896	6 00	.....	.....
Oak Hill C. & M. Co.....	Belleville.....	Jan. 25, 1896	6 00	.....	.....
" ".....	" ".....	May 9, 1896	6 00	.....	.....
Wm. Ogden & Bro.....	Rentchler.....	Jan. 27, 1896	6 00	.....	.....
" ".....	" ".....	April 13, 1896	6 00	.....	.....
Lunaghi Coal Co.....	Collinsville.....	Jan. 28, 1896	8 00	.....	.....
" ".....	" ".....	April 28, 1896	6 00	.....	.....
John James.....	Bethalto.....	Feb. 4, 1896	6 00	May 16	6 00
" ".....	" ".....	May 14, 1896	6 00	.....	.....
John Spencer.....	" ".....	Feb. 4, 1896	6 00	.....	.....
" ".....	" ".....	May 14, 1896	6 00	.....	.....
Chas. Kabel.....	Moro.....	Feb. 4, 1896	6 00	.....	.....
Waln't Hill C. C., P. O. Birkner.....	Lenz Station.....	" 6, 1896	6 00	.....	.....
Massie C. Co., Massie, No. 1.....	Belleville.....	" 6, 1896	6 00	.....	.....
" " Hartman, No. 1.....	" ".....	March 7, 1896	6 00	.....	.....
" " No. 2.....	" ".....	May 26, 1896	6 00	.....	.....
" " No. 1.....	" ".....	June 10, 1896	6 00	.....	.....
Raab & Raab Co.....	" ".....	Feb. 8, 1896	6 00	.....	.....
F. Murphy.....	" ".....	" 8, 1896	6 00	.....	.....
Jos. Betts, "Maule".....	" ".....	" 12, 1896	8 00	.....	.....
" " "National".....	" ".....	March 16, 1896	6 00	.....	.....
Wonderly Coal Co.....	Edwardsville.....	Feb. 14, 1896	6 00	.....	.....
" ".....	" ".....	May 27, 1896	6 00	.....	.....
Klingenfus Bros.....	Belleville.....	Feb. 28, 1896	6 00	.....	.....
John Harst.....	" ".....	" 28, 1896	6 00	.....	.....
Louis Grossman.....	Smithton.....	March 3, 1896	6 00	.....	.....
Johnson & Co.....	" ".....	" 3, 1896	6 00	.....	.....
J. C. Schmidt, P. O. Millstadt.....	Hugh Prairie.....	" 3, 1896	6 00	.....	.....
Sliment & Son.....	Centerville.....	" 4, 1896	6 00	.....	.....
Conrad Strawbridge.....	French Village.....	" 4, 1896	6 00	.....	.....
James Charleton.....	" ".....	" 4, 1896	6 00	.....	.....
Green Hill Coal Co.....	Freeburg.....	" 13, 1896	6 00	.....	.....
Freeburg M. Co.....	" ".....	" 13, 1896	6 00	.....	.....
" ".....	" ".....	June 13, 1896	6 00	.....	.....
Dutch Hill Coal Co.....	New Athens.....	April 9, 1896	6 00	.....	.....
Maloy & Ball.....	North Alton.....	May 13, 1896	6 00	.....	.....
Nathan Syddall.....	" ".....	" 13, 1896	6 00	.....	.....
J. Pierce & Co.....	" ".....	" 13, 1896	6 00	.....	.....
Wm. Sargent.....	Moro.....	" 14, 1896	6 00	.....	.....
Wm. Chalengworth.....	Fosterburg.....	" 14, 1896	6 00	.....	.....



*Financial Statement—Continued.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
H. Murray .....	Nashville .....	Mar. 16, 1896	\$6 00		
J. M. Jones .....	Coulterville .....	Nov. 9, 1895	6 00		
		Feb. 6, 1896	6 00		
Big Muddy Coal and Iron Co. "Harrison" .....	Murphysboro .....	Nov. 11, 1895	8 00	Jan. 27	\$8 00
Big Muddy Coal and Iron Co., No. 4 .....	" .....	" 13, 1895	8 00	"	8 00
Big Muddy Coal and Iron Co., No. 5 .....	" .....	" 13, 1895	8 00	"	8 00
Big Muddy Coal and Iron Co., No. 4 .....	" .....	Feb. 18, 1896	8 00	May 9	8 00
Big Muddy Coal and Iron Co., No. 5 .....	" .....	" 18, 1896	8 00	"	8 00
Big Muddy Coal and Iron Co., "Harrison" .....	" .....	" 28, 1896	8 00	"	8 00
Big Muddy Coal and Iron Co., No. 1 .....	" .....	May 21, 1896	8 00		
Big Muddy Coal and Iron Co., No. 5 .....	" .....	" 22, 23, 1896	10 00		
Gartside Coal Co., No. 4 .....	" .....	Nov. 11, 1895	8 00		
" " No. 1 .....	" .....	" 12, 1895	6 00		
" " No. 3 .....	" .....	" 12, 1895	6 00		
" " No. 3 .....	" .....	Feb. 24, 1896	6 00		
" " No. 1 .....	" .....	" 26, 1896	6 00		
" " No. 4 .....	" .....	" 27, 1896	6 00		
" " No. 3 .....	" .....	May 19, 1896	8 00		
" " No. 1 .....	" .....	" 18, 1896	6 00		
" " No. 4 .....	" .....	" 20, 1896	6 00		
E. E. Poole .....	" .....	Nov. 14, 1895	6 00		
D. P. Willis .....	" .....	Mar. 2, 1896	6 00		
" .....	" .....	Nov. 14, 1895	6 00		
" .....	" .....	Feb. 19, 1896	6 00		
" .....	" .....	May 6, 1896	6 00		
Smith & Read .....	Marion .....	Nov. 15, 1895	6 00	Jan. 24	6 00
S. A. Campbell .....	" .....	" 16, 1895	6 00	May 27	6 00
Tilden Coal Co. ....	Tilden .....	Apr. 15, 1896	6 00		
" .....	" .....	Nov. 30, 1895	6 00		
" .....	" .....	Feb. 5, 1896	6 00		
" .....	" .....	Jan. 13, 1896	6 00		
G. W. Brown .....	Pinckneyville .....	Nov. 21, 1895	6 00	Jan. 20	6 00
" .....	" .....	Mar. 17, 1896	6 00		
" .....	" .....	June 12, 1896	6 00		
S. C. & C. Co. ....	Sunfield .....	Nov. 22, 1895	6 00		
" .....	" .....	Mar. 10, 1896	8 00		
" .....	" .....	June 20, 1896	8 00		
Perry Co. C. M. Co. ....	DuQuoin .....	Nov. 23, 1895	6 00		
" .....	St. Johns .....	Mar. 11, 1896	8 00		
" .....	" .....	June 20, 1896	6 00		
Dill & Wallace Co., No. 2 .....	New Burnside .....	Nov. 26, 1895	6 00	Feb. 14	6 00
" No. 1 .....	" .....	" 26, 1895	6 00		6 00
McMichael & King .....	" .....	" 26, 1895	6 00	Feb. 26	6 00
Davenport Coal Co. ....	Harrisburg .....	" 27, 1895	6 00	Jan. 29	6 00
" .....	New Castle .....	" 29, 1895	6 00		6 00
" .....	Ledford .....	Apr. 6, 1896	6 00		
E. E. Hubbard Co. ....	" .....	Nov. 27, 1895	6 00		
Warfield & Riley Co. ....	Harrisburg .....	" 29, 1895	6 00		
Sato Coal and M. Co. ....	Sato .....	Dec. 2, 1895	6 00		
" .....	" .....	Mar. 23, 1896	6 00		
Wining Mining Co. ....	" .....	Dec. 2, 1895	6 00		
Murphysboro B. M. C. Co., No. 1 .....	" .....	Dec. 3, 1895	6 00		
" .....	" .....	Mar. 24, 1896	6 00		
Willisville C. & M. Co. ....	Percy .....	Dec. 3, 1895	6 00		
" .....	Willisville .....	Jan. 9, 1896	6 00		
" .....	" .....	June 2, 1896	6 00		
Little Muddy C. & M. Co. ....	Percy .....	Dec. 4, 1895	6 00		
" .....	" .....	Mar. 5, 1896	6 00		
" .....	" .....	June 3, 1896	6 00		
Boyd Coal and Coke Co. ....	Sparta .....	Dec. 5, 1895	6 00		
" .....	" .....	Mar. 27, 1896	6 00		
" .....	" .....	June 15, 1896	6 00		
Randolph Coke & Coal Co., No. 2 .....	" .....	Dec. 5, 1895	6 00		
" " No. 1 .....	" .....	Dec. 17, 1895	6 00		
" " No. 1 .....	" .....	Mar. 4, 1896	6 00		
" " No. 3 .....	" .....	Mar. 26, 1896	6 00		

*Financial Statement—Concluded.*

Name of Firm, Company or Person Operating Mine.	Location.	Date of Inspection.	Amount of Fee.	FEES PAID.	
				Date.	Amount.
A. Kuhn.....	DuBois.....	Dec. 10, 1895	\$6 00		
".....	".....	Mar. 12, 1896	6 00		
".....	".....	June 18, 1896	6 00		
D. C. Barber.....	Tamaroa.....	Dec. 11, 1895	6 00		
".....	".....	Feb. 8, 1896	6 00		
T. L. Stockton.....	".....	Dec. 12, 1895	6 00		
".....	".....	Feb. 7, 1896	6 00		
Jenner & Davis.....	Pinckneyville.....	Dec. 14, 1895	6 00		
Brown & Barwell, P. O. Cutler	Barwell.....	16, 1895	6 00		
".....	".....	Mar. 18, 1896	6 00		
".....	".....	June 4, 1896	6 00		
W. M. Barnard.....	Percy.....	Dec. 17, 1895	6 00		
".....	".....	Mar. 19, 1896	6 00		
".....	".....	June 6, 1896	6 00		
Wm. G. Goalby & Son, No. 1.....	".....	Dec. 18, 1895	6 00		
".....	".....	Dec. 18, 1895	6 00		
".....	".....	Mar. 5, 1895	6 00		
Equality Coal Co.....	Equality.....	Dec. 20, 1895	6 00	Jan. 20..	\$6 00
".....	".....	April 7, 1896	6 00		
Stader & Martin.....	".....	Dec. 21, 1895	6 00	May 7...	6 00
Hickory Hill Coal Co.....	".....	21, 1895	6 00	Jan. 20..	6 00
Peter Whalen.....	Colchester.....	Feb. 20, 1896	6 00		
Excelsior Coal Co.....	DuQuoin.....	Jan. 3, 1896	6 00		
".....	".....	May 16, 1896	6 00		
Wood Bros.....	Pinckneyville.....	Jan. 2, 1896	6 00		
Valley & Gulf Coal Co.....	Sparta.....	4, 1896	8 00		
".....	".....	28, 1896	8 00		
".....	".....	24, 1896	6 00		
Turner & Faust.....	Pinckneyville.....	10, 1896	6 00		
Evans & Brush.....	Carbondale.....	11, 1896	6 00		
Williamson Co. Coal Co., P. O. St. Louis.....	Johnson City.....	" 27, 1896	6 00		
Williamson Co. Coal Co., P. O. St. Louis.....	".....	April 16, 1896	6 00		
T. L. Bailey.....	Makanda.....	Mar. 3, 1896	6 00		
Coulterville Mining Co.....	Coulterville.....	21, 1896	6 00		
".....	".....	May 28, 1896	6 00		
Argus Barton & Co.....	Sato.....	Mar. 24, 1896	6 00		
W. C. Baird, P. O. Carbondale.....	Boskey Dell.....	April 13, 1896	6 00		
J. C. Rich, P. O. Carbondale.....	".....	13, 1896	6 00		
J. A. Preston, P. O. Carbondale.....	".....	14, 1896	6 00		
Marion Coal Co.....	Marion.....	" 17, 1896	8 00		
John Myer.....	Percy.....	June 5, 1896	6 00		
Fred Rosendorf.....	Cutler.....	" 5, 1896	6 00		
Geo. Brueggemann.....	Nashville.....	" 11, 1896	6 00		
Cicero Barber & Bro.....	Tamaroa.....	" 19, 1896	6 00		
Tamaroa Colliery Co.....	".....	" 19, 1896	6 00		
Detrie Strameyer.....	Percy.....	" 4, 1896			

*Summary for State.*

District.	Total amount of fees of inspection service.	Amount paid.	Amount unpaid.
First .....	\$1,012	\$214	\$798
Second .....	1,172	142	1,030
Third .....	1,380	124	1,256
Fourth .....	1,462	144	1,318
Fifth .....	840	78	762
Sixth .....	1,212	110	1,102
Seventh .....	1,070	142	928
The State .....	\$8,148	\$954	\$7,194

# DECISION OF THE SUPREME COURT IN THE MATTER OF WEIGHING COAL AT THE MINES.

William Harding and Charles Emery	} Error to Vermilion.
vs.	
The People of the State of Illinois.	
Cartwright, J.:	

Plaintiffs in error were indicted and convicted for a violation of the act requiring the weighing of coal at the mines, in force July 1, 1887, as amended by act in force July 1, 1891. Some of the counts, upon which they were found guilty, charged them with a failure to weigh all the coal delivered from the mine; and others charged them with not keeping a correct record of the weight of each miner's car.

The portion of the act under which the prosecution was had, material to the same, is as follows:

1. That the owner, agent or operator of every coal mine in this State, at which miners are paid by weight, shall provide at such mines suitable and accurate scales of standard manufacture for the weighing of all coal which shall be hoisted or delivered from such mines.

2. All coal so delivered from such mines shall be carefully weighed upon the scales as above provided, and a correct record shall be kept of the weight of each miner's car, which record shall be kept open at all reasonable hours for the inspection of all miners or others pecuniarily interested in the product of such mine. The person designated and authorized to weigh the coal and keep such record shall, before entering upon his duties, make and subscribe to an oath before some magistrate or other officer authorized to administer oaths, that he will accurately weigh and carefully keep a true record of all coal delivered from such mine, and such oath shall be kept conspicuously posted at the place of weighing.

3. Any person, owner or agent, operating a coal mine in this State, who shall fail to comply with the provisions of this act, or who shall obstruct or hinder the carrying out of its requirements, shall be fined for the first offense not less than fifty dollars (\$50) nor more than two hundred dollars (\$200); for the second offense not less than two hundred dollars (\$200) nor more than five hundred dollars (\$500); and for a third offense, not less than five hundred dollars (\$500), or be imprisoned in the county jail not less than six months nor more than one year: *Provided*, That the provisions of this act shall apply only to coal mines whose product shall be shipped by rail or water.

The constitutionality of this act is challenged by plaintiffs in error; and this is the only question that will be considered; although the application of the statute to this case is disputed, and questions of variance, and of error in the giving and refusing of instructions, are also raised.

It is objected that the act is in violation of section 2 of article II of our constitution, which provides that no person shall be deprived of life, liberty or property without due process of law, because it singles out operators of one class of coal mines and imposes restrictions upon them not required to be borne by operators of other mines, or by persons engaged in other business; and also by interfering with the right of employer and laborer to contract with each other.

The Consolidated Coal Company had owned and operated the mine where plaintiffs in error were employed for six or seven years. The greater part of its product was shipped from the mine by rail, on the Wabash railroad, and sold in other markets. All the coal so shipped was correctly weighed on scales of standard manufacture by the company, at the mine, before being dumped into the railroad cars; and a correct record was made of the weight of each miner's car, and that record was posted and kept open at all reasonable hours for the inspection of the miners or any person interested. During this time the company had also furnished the Wabash Railroad Company with coal for its locomotives, which was delivered at the mines into the tenders of the locomotives as they stopped there for coal. There were about 250 miners employed, and the average output of the mine was from 700 to 950 tons of screened coal per day. The miners were paid 55 cents per ton for screened coal. About the last 100 miners' cars that came up in the evening of each day would be placed on the storage tracks, for the purpose of coaling the locomotives during the night and the next day. This last coal was not weighed, but each miner was given the average weight of the cars sent up by him and weighed during the day as the weight of his last car, crediting him with the average weight of the cars mined by him that day that had been actually weighed.

By the act under consideration its provisions are applied only to coal mines whose product is shipped by rail or water; and the learned Attorney General and counsel for the people construe the provision as making the law applicable to each mine where the major portion of its product is so shipped. However that may be, it is plain that the act not only singles out the operator of a mine and imposes restrictions and burdens upon him, as to the use and employment of his property, that are not imposed upon other branches of business similarly situated and conducted, but it divides the operators of mines, and only applies its provisions to those whose product is shipped in a certain manner.

In the various constitutions the phrases "due process of law" and "the law of the land" are used interchangeably, sometimes one being employed and sometimes the other; but they are synonymous, and the meaning is the same in every case. *Cooley's Constitutional Limitations*, 353.

In *Millett v. The People*, 117 Ill., 294, it was said of this phrase, "and this means general public law, binding upon the members of the community under

all circumstances, and not partial or private laws, affecting the rights of private individuals or classes of individuals," citing *Jones v. Reynolds*, 2 Texas, 251; *Wyenheimer v. The People*, 13 N. Y., 378; *Vanzandt v. Waddell*, 2 Yerger, 269. And the same declaration was made in *Frorer v. The People*, 141 Ill., 171, where the statute prohibiting engaging in keeping a truck store was held unconstitutional. And in *Braceville Coal Company v. The People*, 147 Ill., 66, where the same conclusion was reached as to an act to provide for the weekly payment of wages by a corporation.

The right to enact such a statute does not arise out of the police power, where much latitude is allowed in determining what may tend to insure the comfort, safety or welfare of society; and it is not authorized by Section 29 of Article IV of the Constitution, providing for laws to secure safety to coal miners. *Millett v. The People*, *supra*.

Each person subject to the laws has a right that he shall be governed by general public rules. Laws and regulations entirely arbitrary in their character, singling out particular persons not distinguished from others in the community by any reason applicable to such persons, are not of that class. Distinctions in rights and privileges must be based upon some distinction or reason not applicable to others. In *Braceville Coal Co. v. The People*, *supra*, it is said: "And it is only when such distinctions exist that differentiate in important particulars persons or classes of persons from the body of the people, that laws having operation only on such particular person or classes of persons have been held to be valid enactments."

No possible reason or distinction affecting any interest, justifying the division of mines made by the act, has been suggested except that it might be intended to reach mines in which the larger number of miners were employed. But this is not the division or distinction made; and does not in any manner follow from such division. It is not the language or purport of the act, and if such had been the intention of the legislature, it would certainly have been made manifest by basing the division or distinction upon the number of miners employed. The act applies equally to the owner of a small mine, where the product may not exceed a car load per day, and the owner of a mine such as that of the Consolidated Coal Company. The distinction is based solely upon the fact of the product being shipped by rail or water; and counsel have been able to suggest no reason why the legislature should require the product of such a mine to be weighed in the manner specified, and not that of another mine where the product is sold on the spot. The distinction between operators who sell their product at the mine to some shipper, who ships it away to the market, and those who themselves ship their coal by rail or water, is purely arbitrary. Any reason that would apply to one, calling for restriction upon the manner of doing business would be equally applicable to the other; and special burdens and restrictions upon one class not imposed upon the other constitute an arbitrary deprivation of rights. As the act makes that an offense if committed by a person engaged in one branch of mining, which, if done by persons in another branch of the same business, is lawful, without any reason for distinction between the two, we must regard it as unconstitutional.



In *Millett v. The People*, *supra*, and *Ramsey v. The People*, 142 Ill. 380, where provisions similar to those of the act now under consideration were held to be unconstitutional and void, the general right of the laborer and employer to contract in regard to the price of labor, and the method of ascertaining the price, was asserted; and the rule was laid down that any restriction upon that right is a deprivation of both liberty and property within the meaning of the constitutional provision.

In view of the discussion of the principles involved in those cases, no extended statement of them will be necessary here. This act makes it an offense against the law for the employer and laborer, at any coal mine at which the miners are paid by weight, to determine upon the weight of any miner's car, or any lot of coal, by any other method than that pointed out by the statute. A failure to weigh a car and to keep a correct record of the weight, renders the operator liable to the penalties prescribed by the act, although he and the laborer may have agreed upon the weight of the car, or contracted for other methods of determining the weight. This is well illustrated by the facts of this case. The last cars that came up in the evening of each day, designed for coaling the locomotives, would not be weighed until the coal was dumped into the tenders, so that the miners could not obtain the weights until the next day, and they wanted them the same evening. For this reason and at the instance of the miners, it had been the custom for six years to give each miner the weight according to the system above stated. When the company attempted to change this system and weigh the coal, the miners objected, and insisted upon the custom of averaging the weights. No objection was ever made by any miner to this manner of arriving at the weight instead of weighing the cars on the scales.

Here was an arrangement amounting to a contract between the parties with which all the contracting parties were satisfied. And the testimony upon which the plaintiffs in error were convicted came from miners who left during the miners' strike of 1894, and were not again employed by the company.

It seems that a law which deprives men engaged in the business of mining from contracting with each other for the purpose of ascertaining the weight of the coal mined, or the amount due them, in any manner mutually satisfactory, cannot be sustained. That such is the effect of this law is the contention of counsel for the People; and it is only upon the assumption that the law does so control the power to contract, that a conviction could have been had in this case; for, as already seen, the parties had contracted otherwise. The act takes away the freedom of contracting by the parties for the ascertainment of the weight of coal, except by a certain method, and in our opinion it is unconstitutional.

The judgment will be reversed and the cause remanded, with directions to the Circuit Court to discharge the defendants.

JUDGMENT REVERSED.

